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The Missouri Miner, March 14, 1990

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7, 1990

Missouri Miner

March 14, 1990

Volume 78, Number 24

Twenty-eight pages



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Climate control researched UMR receives grant from Division of Aging

News and Publications
SOURCE

Climate control in the passenger compartments of automobiles is becoming more of an exact science because of air flow studies being conducted by researchers at the University of Missouri-Rolla.

"We hope to provide automakers with a more efficient method of designing heating, ventilating and air-conditioning systems by using computational fluid dynamics (CFD), which is the study of how a fluid, either a liquid or gas, flows," Dr. Shen C. Lee, a UMR professor of mechanical and aerospace engineering, explained.

"In this case, we are using computers to determine how air flows through the passenger compartment of an automobile during the heating and cooling process and how long it takes for the compartment to reach a comfortable temperature level," said Lee. "The results of our research probably will be implemented on 1991 or 1992 model cars."

Lee explained that the challenge for automotive design engineers in comfort control is to provide optimum passenger comfort at a minimum cost without compromising either the performance or the appearance of the car.

"This has become even more of a challenge in recent years because today's automobiles have an increased amount of glass surfaces and glass transmits various quantities of the sun's radiation, and this alone can be a significant heat source," he said.

"For this reason, engineers must consider the effects of solar radiation on the interior surfaces of the compartment as well as on the passengers when the heating and cooling unit is designed."

"Additionally, because glass is a poor insulator, heat may be lost from the car's passenger compartment affecting the comfort level in cold weather," said Lee.

Another consideration is relative humidity and water-vapor condensation.

"A small amount of water vapor content in the air is an important factor in determining human comfort," said Lee. "On the other hand, it also may be a safety factor because water vapor can condense on cold surfaces, such as a car's windows, and obstruct the driver's view."

"Using computer models to simulate passenger comfort and to understand the effects of solar radiation on heating and cooling passenger compartments will allow changes to be made earlier in the car's design process than they are being made now," Lee continued.

"The current method used by automotive engineers is to estimate a car model's needs for heating and cooling based on past experience," he explained. "Then a system is developed, built into the automobile and tested. If the unit is not sufficient for the car's size, it is too late to make changes."

"The computer can be a very useful tool for design engineers," Lee said, "because it allows researchers to select and test more systems than could

be built and tested in the same amount of time. Engineers also will be able to determine the most efficient heating and cooling unit before the car is built."

"A Japanese automaker is already using the CFD method in its automotive design," he added.

Initially, Lee's research, which is being conducted for General Motors, involved studying nine computer codes, or software packages, which are available commercially, to determine which would most accurately predict how air flows through an automobile's passenger compartment.

"The study found that none of the nine codes considered all the variables which control the comfort of a car's occupants," Lee said.

"Consequently, we are working with the GM research laboratory to try to integrate and modify some of the computer codes to be able to simulate the effects of solar radiation and to consider relative humidity and water-vapor condensation," he added.

The engineering department of the Chevrolet-Pontiac-Canada group of General Motors tests the findings of the computer simulations.

Assisting Lee on the project at UMR are Chang-Ren Chen, a Ph.D. candidate in mechanical engineering, and Charles Vaporean, who is pursuing a master's degree in aerospace engineering. Information also was obtained by James Martin, who received a master's degree in aerospace engineering from UMR and is now employed by NASA's George Marshall Space Flight Center in Huntsville, Ala.

News and Publications
SOURCE

Older adults in several areas of the state will be provided with increased opportunities for interaction with others in their communities through a \$50,000 grant presented to the University of Missouri-Rolla by the Missouri Division of Aging.

Dr. W. Nicholas Knight, professor of English and director of the Center for Aging Studies at UMR, is directing the grant program entitled "Operation Outreach: Developing Diversified Community-Based Demonstration Projects Which Focus Upon the Health and Social Service Needs of Dependent Elderly Persons."

According to Knight, the grant will provide a variety of community-based projects to assist the elderly in establishing communication- and activity-oriented experiences in their areas.

"For example," Knight said, "in the Bootheel, a project will allow senior adults in rural communities to gather information for a newsletter which they will distribute to other elderly in the area."

"Senior adults in Greene County are producing a series of television

programs on creative aging," Knight added, "and, in southwest Missouri, 'Seniors Overseeing Seniors: S.O.S. for Caregivers' allows healthy older adults to care for the infirm elderly."

"Other projects encourage young people to visit long-term care facilities and provide people in nearby communities with the opportunity to visit the elderly in their homes in isolated areas," Knight said.

Project plans were discussed at a conference held recently at UMR.

During the conference, Dr. Kenneth M. Ragsdell, UMR associate vice chancellor for academic affairs/extension, spoke to project leaders about the value of projects such as "Operation Outreach" which provide opportunities for interaction between young people and older adults.

"Current social problems involving young people and the elderly are related to and associated with the 30-year decline in the nuclear family in western culture," Ragsdell said. "Some of these problems may be solved by encouraging communication between the young and the elderly."

Missouri Miner

The Missouri Miner is the official publication of the students of the University of Missouri-Rolla. It is distributed each Wednesday afternoon at Rolla, Missouri and features activities of the students of UMR.

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The Missouri Miner encourages comments from its readers, and will attempt to print all responsible letters and editorial material received. All submissions must have a name, student ID number, and phone number for verification. Names will be withheld upon request.

Submissions for publication must be in our drop box (first floor of the Norwood Hall, Room 103) by 3:30 p.m. on the Thursday before publication. The Missouri Miner reserves the right to edit all submissions for style, grammar, punctuation, spelling, length, and matters of good taste.

The Missouri Miner is operated by the students of UMR and the opinions expressed in it do not necessarily reflect those of the university, faculty, or student body.

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Theta Tau Omega prepares for Casino Night

Theta Tau Omega
SOURCE

A gambling spree at Las Vegas with thousands of dollars to spend on a whim, surrounded by beautiful women. You say you can't afford this luxurious lifestyle? Well for one night only, you can at Theta Tau Omega's annual Casino Night. The bunnies, gorgeous women from the UMR campus, will be waiting there to greet you.

The fun starts Wednesday night of St. Pat's, March 14 at the Armory on Fairgrounds Road. At Casino Night, students, townspeople, and faculty all have a chance to gamble for prizes. For an entrance fee of \$5.00, they will be given play money to spend as they wish on poker, blackjack, craps, mouse roulette and carnival type games. With the money they win, they can buy prizes donated by Rolla area businesses. Some of these prizes include pool cues, jewelry, bar lights, clothing, gift certificates, and many more.

All the money collected from Casino Night will go to the Rolla Cerebral Palsy School and to the Big Brothers/Big Sisters program.



Submitted by Theta Tau Omega

This year's Casino Night Bunnies, from left, Beth Kilwin, Tina Casto, Elaine Yonker, Sue Burrows, Cindy Patterson, Heather Gownick, and Rhonda Beal, display prizes.

Calendar of Events

Wednesday

St. Pat and His Court, 12p.m. (noon) make their noble arrival into the town of Rolla at the corner of 8th Street and the Railroad tracks. Immediately following Court Arrival at the same location: Wednesday Follies: Town Beard Contest, Novelty Beard Contest, Men's Shillelagh Competition, Leprechaun Look-A-Like Contest, and Most St. Pat's Sweatshirts on in One Minute.

Electrical Engineering Seminar, 3:30p.m., in room 101 EE. "TeX, A Computerized Typesetting System," Ed Wilson, UMR. FREE!

ME, AE, and Engineering Mechanics Seminar, 3:30p.m., in room 107C ME Annex (Mining). "Selected Topics in Fluid Structure Interaction," Dr. Charles W. Bert, George L. Cross Research Professor, The Benjamin H. Perkinson Chair Professor of Engineering, The University of Oklahoma. FREE!

ISC Meeting, 5:15p.m., in room 114 CE.

Wesley Meeting, 6p.m., at the Wesley Foundation.

Tau Beta Sigma Meeting, 7p.m., in Old Cafe.

Theta Tau Omega Casino Night, 7p.m. to midnight, at the National Guard Armory. Admission \$4 in advance, \$5 at the door. Proceeds go to Rolla Big Brothers/Big Sisters and Rolla CP School.

SME Meeting, 7:30p.m., in room 204 McNutt Hall.

Mass, 9p.m., at the Newman Center.

Thursday

SPRING RECESS, NO SCHOOL!!!

St. Pat's BUSSES, 11a.m., from EE, Fraternity Row, and Quad Parking Lots.

GONZO, 11:30a.m.-3:30p.m., at Lion's Club Park featuring music by the "KSHE CLASSICS BAND."

AF ROTC Leadership Lab, 12:30p.m., in room 216 McNutt Hall.

ME, AE, and Engineering Mechanics Seminar, 1:30p.m., in room 104 ME Miles Auditorium, Mechanical Engineering Building. "A New Computationally Efficient Method for Solid Mechanics: The Differential Quadrature Technique," Dr. Charles W. Bert, George L. Cross Research Professor, The Benjamin H. Perkinson Chair Professor of Engineering, The University of Oklahoma. FREE!

Bible Study Club Meeting, 4p.m., in Maramec Room.

Toastmasters Meeting, 4:45p.m., in room 220 Fulton Hall.

IRC's Annual SHAMROCKER, March 15th, Thursday, 8pm - 1am, Rolla Inn. Buses running from TJ and Quad, music by

KMNR Roadshow. An Open Campus activity. Come on out and show your St. Pat's spirit. IRC = the Inter-Residence Council

Campus Crusade for Christ, 6p.m., in room 125 Schrenk.

KME Help Session, 7p.m., in room 203 M-CS.

UMR Film Series, 7:30p.m., "Let's Get Lost," in Miles Auditorium, Mechanical Engineering Building. Admission by season ticket or \$3 at the door.

Friday

SPRING RECESS, NO SCHOOL!!!

St. Pat's BUSSES, 11a.m., from EE, Fraternity Row and Quad Parking Lots.

GAMES, 12(noon)-4p.m., at Lion's Club Park featuring music by the "KMNR ROADSHOW."

St. Pat's Coronation and Knighting Ceremony, 9p.m., at the Multi-Purpose Building.

Juggling Club, 4:30p.m. to 6p.m. and 7 to 8p.m. at the Miner Rec. Contact Ed Carstens at 364-7536 for details.

IVCF Meeting, 7p.m., in room 139 Schrenk.

KMNR Glitterball, 8p.m.-1a.m., at Knights of Columbus Hall. All-Campus Party! Free admission.

Saturday

ST. PATRICK'S DAY!!!

St. Pat and His Court, 10a.m., start down Pine Street.

THE 1990 ST. PAT'S PARADE, 11a.m.-1:30p.m., in downtown Rolla.

ALICE, 2:30p.m., at the football stadium.

St. Pat's Concert, 7p.m., at the Multi-Purpose Building featuring "SHOOTING STAR."

Monday

ME, AE, and Engineering Mechanics Seminar, 3:30p.m., in room 210 ME. "Propulsion Systems for Hypersonic Flow," Dr. David Riggins, NASA-Langley Research Center. FREE!

Chemistry Department Seminar, 4:30p.m., in room G-3 Schrenk Hall. "Polyelectrolyte Complex Microcapsules, A Preliminary Study," Dr. Bill Stevenson, Chemistry Department, Wichita State University, Wichita, Kansas. FREE!

Independents Meeting, 6:30p.m., in Maramec Room.

Eta Kappa Nu Help Session, 6:30p.m., in room 102 EE.

NSBE Meeting, 7p.m., in room 204 McNutt Hall.

Chi Alpha Bible Study, 7p.m., in room 210 McNutt Hall.

Christian Campus Fellowship Meeting, 7p.m., in the Missouri Room, University Center-East. Everyone is invited.

Tuesday

SUB Frisbee Golf, 11a.m.

UMR Softball, 2:30p.m., versus William Woods, at the UMR softball diamond. FREE!

SWE Meeting, 5:45p.m., in the Ozark Room.

StuCo Meeting, 6:30p.m., in the Eng. Mgt. Aud.

KME Help Session, 7p.m., in 203 M-CS.

AGC Meeting, 7p.m., in room 117 CE.

EIT Review Session, 7p.m., in room 114 CE. Topic that will be discussed in Thermodynamics by Dr. Sheffield (ME).

Next Wednesday

Sigma Xi Luncheon Meeting, noon, in the Mark Twain Room, University Center-East. Dutch treat. Program at 12:30p.m., speaker is Dr. Geza Kisvarsanyi, topic TBA.

Geology and Geophysics Seminar, 3:30p.m., in room 204 McNutt Hall. "Experimental and Theoretic Constraints on Hydrothermal Processes at Midocean Ridges," William E. Seyfried, University of Minnesota, and Society of Economic Geologists Thayer Lindsley lecturer. FREE!

ISC Meeting, 5:15p.m., in room 114 CE.

Wesley Meeting, 6p.m., at the Wesley Foundation.

Rolla Area Geological Society Meeting, 6p.m., at Zeno's. "Geochemical Processes Affecting Base Metal Mobility in Submarine Hydrothermal Systems," William E. Seyfried, University of Minnesota, and Society of Economic Geologists Thayer Lindsley lecturer.

Alpha Chi Sigma Meeting, 6:30p.m., in room G-3 Schrenk.

ITE Meeting, 6:30p.m., in room 114 CE.

IEEE Meeting, 7p.m., in room G-5 H-SS.

Tau Beta Sigma Meeting, 7p.m., in Old Cafe.

Pi Tau Sigma Meeting, 7:30p.m., in room 209 ME.

American Foundrymen's Society Meeting, 7:30p.m., in room 204 McNutt Hall.

Mass, 9p.m., at the Newman Center.

Noday

Preregistration for Summer-Fall is April 16-20, 1990.

Class Schedules available April 12, 1990.

Dec Grads go to 103 Parker Hall today to apply.

Lecturer from Oklahoma at UMR March 12-15. Dr. Charles W. Bert, George L. Cross Research Professor at the University of Oklahoma, will visit the UMR campus March 12-15. Lectures are as follows:

Monday, March 12 — "Structural Concepts for Externally Pressured Structures: History of the Development of Submarines and Deep Diving Submarines," 7p.m., in room 104 ME (Miles Auditorium).

Tuesday, March 13 — "Dynamics of Composite Materials," 3:30p.m., in room 104 ME.

Wednesday, March 14 — "Selected Topics in Fluid Structure Interaction," 3:30p.m., in room 107C Mining (ME Annex).

Thursday, March 15 — "A New Computationally Efficient Method for Solid Mechanics: The Differential Quadrature Technique," 1:30p.m., in room 104 ME.

Those wishing to visit with Dr. Bert may do so

by contacting Dr. Bassem F. Armaly, chairman and professor of mechanical and aerospace engineering and engineering mechanics at UMR, phone (314) 341-4662, or Dr. Serge Abrate, UMR assistant professor of aerospace engineering, phone (314) 341-4620.

Bert's visit to UMR is being sponsored by UMR's mechanical and aerospace engineering and engineering mechanics department.

All International Students: March 25 is the International Day. The ISC needs cooperation from all international students with the costume show, the exhibit, and especially your native food recipes, so come to the meeting on every Wednesday at 5:15p.m., in room 213 University Center-West.

For more information call Melissa at 364-6963.

Undergraduate Engineering Majors with approximately 32 to 64 hours completed in their curriculum are eligible to apply for Tau Beta Pi Freshman Scholarships. For more information please contact Martina Schollmeyer at 364-9289 ASAP.

NO Graduation checks will be made during preregistration April 16-20, 1990. Please come to Registrar's Office before April 13, 1990.

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HAPPY ST. PAT'S DAY



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ST. PAT'S WEEK HOURS

Wednesday, March 14, 6 a.m.-Midnight
Thursday March 15, 6 a.m.-1 a.m.
Friday March 16 & Saturday March 17, 6 a.m.-3 a.m.

**GOOD TIME.
GREAT TASTE.**



Financial Aid

WINTER 1990 MISSOURI HIGHER EDUCATION ACADEMIC "BRIGHT FLIGHT" SCHOLARSHIP CHECKS for the Winter 1990 semester are now available. They may be picked up in the Cashier's office basement of Parker Hall.

The ACT Family Financial Statement for the 1990-91 academic year (Fall 1990 and Winter 1991) are available for students in the foyer outside the Student Financial Aid Office (G-1 Parker Hall). This form must be completed in order for a student to be considered for a Pell Grant, College Work Study, Perkins, Loan, university loans, Missouri Grant, the Stafford Student Loan Program (formerly Guaranteed Student Loan Program), the Income Contingent Loan Program, and for the PLUS/SLS Loan Program, for the 1990-91 academic year. First consideration will be given to those students whose ACT-FFS is received by the processing agency by March 31, 1990.

AMERICAN PETROLEUM INSTITUTE (API) GREATER KANSAS CITY CHAPTER SCHOLARSHIP The Greater Kansas City Chapter of the API is sponsoring two scholarships for the 1990-91 school year to a junior or senior in F-90, who have a definite need, who have maintained good academic standing and who are a resident of Jackson, Clay, or Platte Counties in Missouri or Wyandotte, Johnson, Leavenworth, Miami, or Douglas Counties in Kansas.

To request an application contact Mr. Ronald

L. Cook Scholarship Committee Chairman, c/o Petroleum Consultants, P.O. Box 12268, Overland Park, Kansas 66212.

Applications must be received by April 13, 1990.

WINTER 1990 MISSOURI HIGHER EDUCATION ACADEMIC "BRIGHT FLIGHT" SCHOLARSHIP CHECKS The Missouri Higher Education Academic "Bright Flight" Scholarship checks for the Winter 1990 semester are now available. They may be picked up in the Cashier's office, basement of Parker Hall.

THE COUNCIL ON PUBLIC HIGHER EDUCATION The COPHE will be offering ten \$1000 scholarships for the 1990 year. Recipients must have a minimum of 75 college credits, and will be chosen by a committee made up of representatives of COPHE institutions, and awards will be based on accomplishments within the college or university attended by the student. Financial need will not be a factor in determining awards.

Application Deadline is May 18, 1990.

Mail Applications to: John C. Vaughn, COPHE Director, 105 Harris Hall, University of Missouri-Rolla, Rolla, MO 65401.

Applications available at the Student Financial Aid Office G-1 Parker Hall.

SOCIETY OF PROFESSIONAL WELL LOG ANALYSIS FOUNDATION The Society of Professional Well Log Analysis Foundation provides financial assistance to eligible and qualified recipients pursuing a degree program related to

oil, gas or other mineral formation evaluation. Scholarships are available for undergraduate and graduate students and are awarded on a competitive basis which takes into account academic achievement, career objectives, and financial need. Grants are available to undergraduate and graduate students and to faculty members to support research studies and educational projects related to formation evaluation.

The deadline for applications is March 15, 1990. For more information and applications contact Student Financial Aid Office, G-1 Parker Hall.

NATIONAL ASSOCIATION OF WOMEN IN CONSTRUCTION GREATER KANSAS CITY Each year NAWIC awards scholarships to students in a construction related, college degree program. NAWIC seeks scholarship candidates with a similar commitment to their career in construction. Requirements are: 1) Applicant must be enrolled first, second or third year student in a course of study leading to a degree or an associate degree in construction, construction management, architecture, civil, mechanical, structural or electrical engineering.

The deadline for applicants is March 31, 1990. For more information and applications contact Student Financial Aid Office, G-1 Parker Hall.

NATIONAL ASSOCIATION OF WOMEN IN CONSTRUCTION ST. LOUIS, MISSOURI CHAPTER Each year NAWIC awards scholarships to students in a construction related, college degree program. NAWIC seeks scholarship can-

didates with a similar commitment to their career in construction. Requirements are: 1) Applicant must be enrolled first, second or third year student in a course of study leading to a degree or an associate degree in construction, construction management, architecture, civil, mechanical, structural or electrical engineering.

The deadline for applicants is March 31, 1990. For more information and applications contact Student Financial Aid Office, G-1 Parker Hall.

UM-ROLLA/FORD ENDOWED SCHOLARSHIP Ford Scholarship are designated for minorities and women with preference given to Ford employees, their spouses and children. The Ford Scholarship is open to any discipline. Ford Scholarships for undergraduate students may be renewed up to three times but may be renewed only once for graduate students. Renewability of scholarship is based upon a student achieving a Cum GPA of 3.0 and completing at least 24 credit hours.

EMERSON CONGRESSIONAL SCHOLARSHIP Congressman Bill Emerson has used his salary increase for 1987-88 and a portion of his speaking engagement honoraria to endow the Emerson Congressional Scholarship Fund for needy college students.

Any student who will be attending any four-year or two-year public university in the Eighth Congressional District, which includes UMR, is eligible to apply.

Applicants must meet the following criteria: 1) Reside in the Eighth District (permanent home

residence), 2) Be a full-time undergraduate student, 3) Have completed at least one semester college level work and have achieved at least a 2.0 cumulative GPA, and 4) Have education-related financial need in excess of Pell Grant assistance.

Application Deadline is April 1, 1990.

AMERICAN SOCIETY OF MECHANICAL ENGINEERS The ASME wishes to announce its Student Assistance Loan Program for Fall 1990. Qualifications necessary for participation in the program are: 1) Must be a U.S. citizen, 2) Must have 2.2/4.0 if an undergraduate, or 3.2/4.0 if graduate student, 3) Must be a full-time student enrolled in a recognized ME program, 4) Must be a member of an ASME Student Section recognized by ASME.

Applications must be postmarked no later than March 31, 1990.

For further information and applications forms, please contact Dr. Bassem Armaily, Chairman Mechanical & Aerospace Engineering.

SOFTWARE SHOP SYSTEMS, INC. Software Shop Systems plans to award a \$1000 scholarship to a college student presently enrolled in a construction management curriculum. To be eligible for the scholarship, a student must be currently enrolled in a college construction management curriculum and be sponsored by a construction firm. Requests to Software Shop for applications must come directly from the construction firm on behalf of the student.

Completed applications must be returned Software Shop no later than April 15, 1990. For more information, contact Student Financial Aid Office, G-1 Parker Hall.

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SUB wishes to
congratulate the
committee
members of the
month January/
February

Eric Eilerman
(Liesure & Rec.)
Rich Guieb
(Concerts)

Runners Up:
Kathy Sohrabi
(Fine Arts)
Sonal Patel
(Variety Entert.)
Rich Chear
(Films & Video)
Scott Dahlgren
(Technical)
Mike Weiland
(Public Relations)

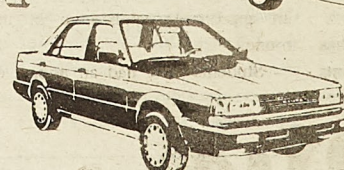
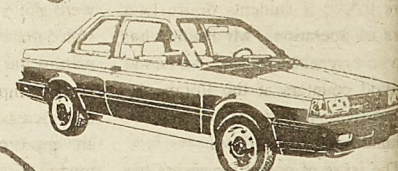
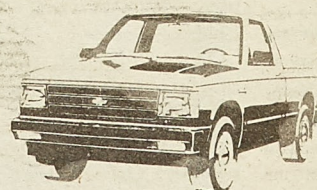
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Opinion

Mandatory assessment is unfair

Commentary
by Larry Williams
MANAGING EDITOR

Once again it's assessment time. Our choice does not involve whether or not we want to attend assessment, it only involves when we want to be assessed (they mail you a card and you supply the times that provide the least

inconvenience to you). As you may already know, assessment is mandatory for the majority of students at UMR. This is the policy of the Board of Curators. In my opinion this policy is wrong, and shows very little concern for the students of UMR.

Along with assessment mailing, students are sent a propaganda pam-

phlet. Here, in summary, are some of the reasons why they say assessment is important to UMR:

1. Students receive results and can compare themselves nationally
2. Increases the probability that I will graduate by studying retention factors
3. Provides opportunity to im-

prove UMR's reputation.

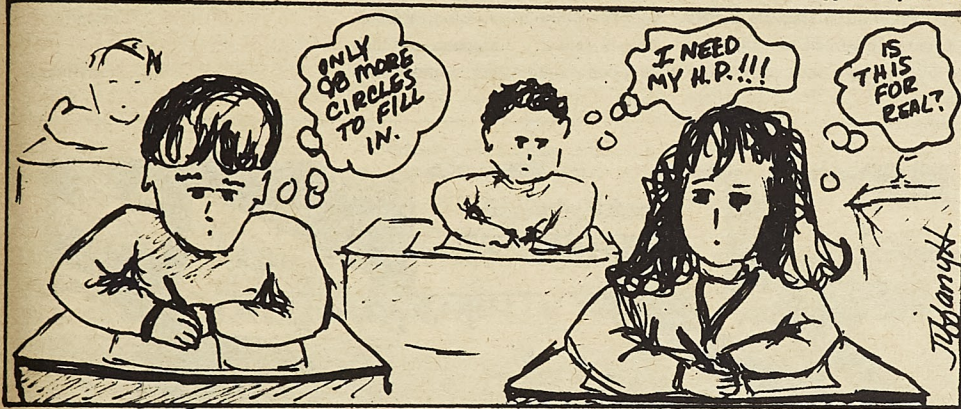
First, we do receive our results. For example, last year I was privileged to take a critical thinking test. This score, as stated in the results, indicates that I have above-average analytical skills. I believe that the majority of students at UMR have these skills or else we would not be here. I feel that this test was a waste of time, it only told me what I already knew.

Secondly, assessment provides a vehicle for concerns and changes you'd like seen at UMR. This may be true, but there are many other ways in which students may express views and create change. Forcing them to express these views at mandatory assessment is not the way to carry this task. The open letter could be administered by some other method.

Thirdly, I disagree with the fact that assessment should be used to

"show how good UMR students really are." UMR students should not be forced to show this through a mandatory assessment program. A university's reputation should NOT be based on the results of assessment. UMR's reputation is built on quality students, faculty, and staff. Employers fully realize the value of a UMR student. We, as students, will also realize the value of our education.

In closing, it should be stated that I feel students are trapped into participating in mandatory assessment, realizing that they may be kept from graduating. We are forced to give something for nothing. It is my belief that many students will not take assessment seriously because of assessment's mandatory nature. Therefore, how can assessment be a true representation of each student's abilities and furthermore, UMR's reputation?



Library to offer extended daily hours

Dear Editor:

Last semester, many representatives to Student Council brought up the issues of access to the library and to computer labs in the Student Issues portion of our meetings. As a result of those who raised concerns, representatives of the Student Council have met with Mr. Bohley and Vice Chancellor Park, Vice Chancellor for Academic Affairs, seeking investigation and possible actions in these areas.

Mr. Bohley was extremely receptive to improving access to the library and has agreed to open the library at 7:30 a.m. on an experimental basis and to begin simple surveys of the number of students using the library at late hours to see if students desire later hours of operation. Mr. Bohley has been so agreeable, in fact, that he has installed counters at the library entrance so that students use can be evaluated at various times.

The issue of computer access has been a little slower going. Complaints

to the Student Council have centered largely on the laboratory hours of operation. There have been some complaints about quality printing access and specialized or different hardware (especially Apple Macintosh's), but most students contacting StuCo indicate that most computer/wprk station labs close too early. Discussions between members of the Chancellor's Student Cabinet, Student Council, and Dr. Park have resulted in Dr. Park's initial pledge to more widely publish the locations of and the hours of operation of the various computer labs on campus. Dr. Park explained that it is very expensive to man the labs and that trial runs of 24-hour computer labs were not very productive. He also stated that student input will be sought on how the new \$2/credit hour institutional computing fee will be spent and that increasing access to labs may be an appropriate application of this money.

Students have had an impact on

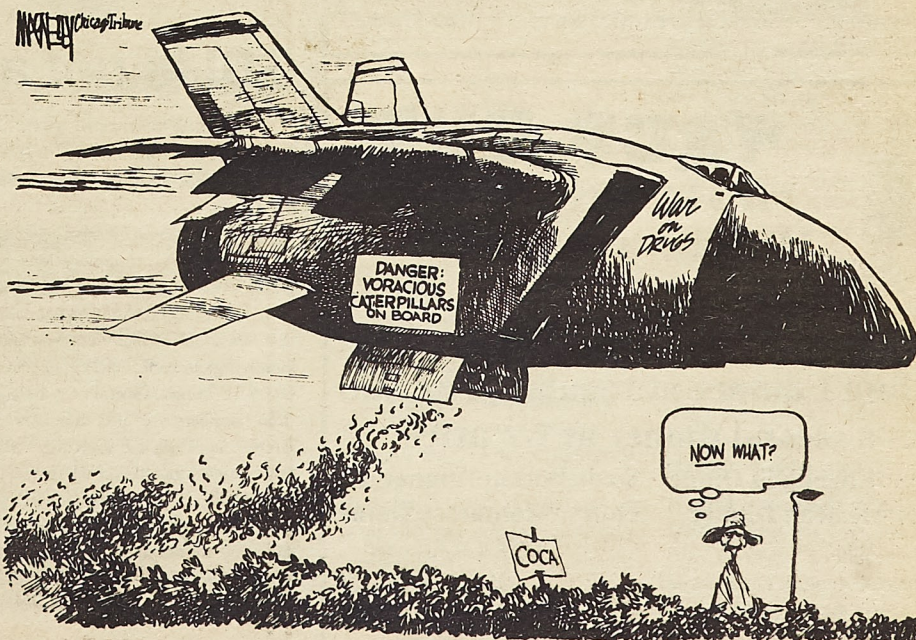
both of these issues. Although they may not be socially gripping issues, they do seem to be serious gripes on this campus. Student Council's role is to serve students, especially in areas such as these - but StuCo needs your input! Talk to your StuCo representative, fill the StuCo Bitch-Boxes with

complaints (or praises), or come by the StuCo Office and unload; StuCo is striving to improve the student voice at UMR and to work with the faculty, staff and administration to accomplish positive change. Most of the people StuCo works with - such as Mr. Bohley and Dr. Park - are extremely helpful,

but they need to hear about your needs. Let StuCo know what needs doing!

Sincerely,

Bob Phillips
President, StuCo



StuCo

Miner is critiqued

Dear Editor:

While reading the March 7 issue of the *Miner*, I noticed an occasional typo on the cover page. No big deal, I thought - everybody makes mistakes. As I continued to read, I began to feel like the "UMM" counter at the Toastmasters meeting. I found more and more typos, misspellings, punctuation errors, etc. I was so distracted that I had to read many of the articles a second time.

It is my understanding that your office uses a word processor for typing in the articles. My question is: Does your word processor have a spell-check? While a number of errors I noticed were just misspelled words, the majority were spelled correctly but

it was the wrong word. The source of this, I believe, is simply carelessness on the part of the editors and the proof-readers.

The *Miner* is usually a high quality publication, but when someone notices 23 typographic errors on two pages, you begin to wonder. Maybe this will bet your attention and prompt you to more thoroughly proofread the articles before typesetting them.

And please don't put the usual response to these kind of letters - "Why don't you join the staff?" - All I want to do is read the paper. It's your job to make it readable.

Sincerely,

Martin A. Tippin

Dear Mr. Tippin,

The Missouri Miner understands your concerns and appreciates your constructive comments. We will work to avoid excessive type errors in the future.

Thank you,

Larry Williams
Managing Editor

Health plan criticized

Dear Editor:

Students who have purchased the optional health insurance available at registration may be interested to know that the policy does not provide as much protection as it promises.

Last year, after I passed out unexpectedly during Thanksgiving break, the doctors discovered I had a brain tumor the size of a hen's egg. The first neurologist I consulted claimed that it was inoperable, but I found another surgeon in New York City who was willing to try. When F.S. James agency received his bill, they said that they would pay only \$1000 of the \$10,000 bill. After numerous threats they eventually agreed to accept the entire bill. Since then, I've been

through six weeks of daily radiation therapy and six bi-monthly three-day chemotherapy treatments, running up a total of over \$60,000 in medical bills, most of it during the 52 weeks following first treatment.

If you consult your insurance brochure, you will see that there is a limit of \$50,000 coverage per illness, and no coverage after 52 weeks from first treatment. However, F.S. James notified me that my account was closed after they paid only \$44,000. During the whole time, most of their payments lagged the bills by more than three months. I filed a formal complaint with the Missouri Division of Insurance in January, but apparently they have done nothing. Furthermore, they

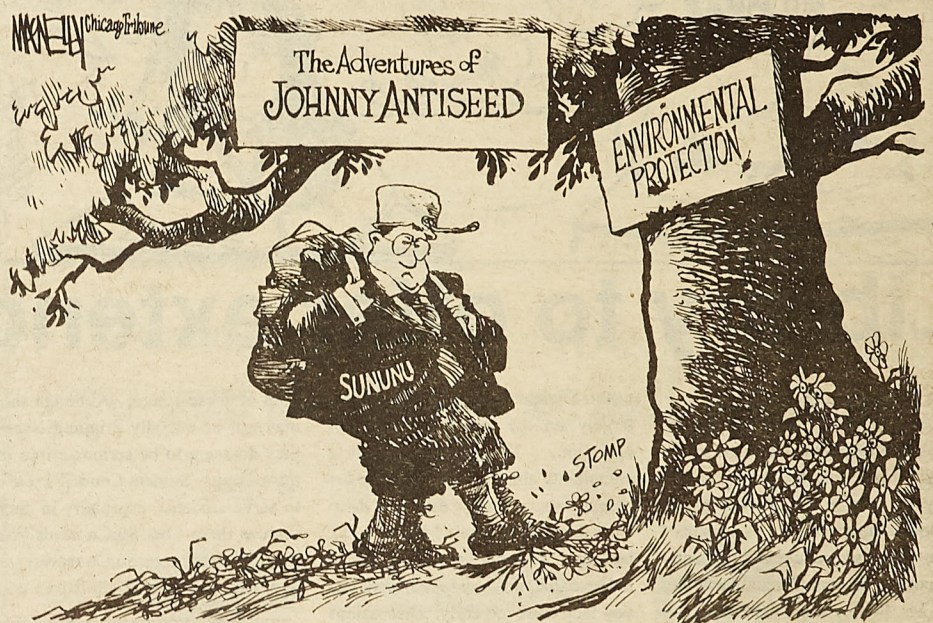
consider me "unreasonable" and "impatient" to have expected anything to be accomplished in only two months. This attitude differs considerably from the attitudes of the creditors and collection agencies that have been chasing me for the last year.

The moral of this story: If you want a lucrative but undemanding job, look for one in insurance or in government.

If you have experienced similar problems with your student health policy, please contact me at 364-0628. Perhaps together we will have the power to bring the giant to its knees.

Sincerely,

Sue Burgess



GDI is not an anti-greek organization

Dear Editor:

Hello, fellow students and members of the faculty and staff of UMR. Over the past year I have become aware of several misconceptions regarding the Independents of UMR (GDI). The most common misconception about GDI is that we are an anti-Greek organization. GDI is not anti-Greek!!! In fact, several of our long-time members are also members of Greek fraternities and sororities. GDI is a social organization dedicated to serving all UMR students with an independent spirit. In addition to our social events (which are open to all students) we also provide an opportunity for students to become involved in

other University activities, i.e. Student Council, Intramurals, and the St. Pat's Board. All members of GDI are eligible to pursue a position on a committee, the Board of Governors, or even become an officer. Although all these opportunities to get involved are offered, nothing but having fun is required from members. There is no hazing, initiation or pledging. Once membership fees have been paid, the student becomes a full member equal in all respects to other members.

In addition to serving UMR students, GDI takes pride in serving our community. Recently GDI sponsored a Park Clean-up at Lane Springs. Over 25 bags of trash, 20 old tires, and

various automobile parts were collected and disposed of. We are also actively involved in helping the Boy's Town of Missouri in St. James by collecting donations at parties and the distribution of the GDI St. Pat's 60 *Miner* Magazine.

The Independents of UMR is a great way to enhance your college experience and to make lifelong friends. We encourage all students to stop by our office (204 UC West) or call 341-6021 for more information.

Sincerely,

Jeff Schuessler
President, GDI



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Features

EIT reviews held

By Mindy Gardner
STAFF WRITER

A few weeks ago the EIT review sessions were cancelled and several students were surprised by this fact because there have always been review sessions. The American Society of Civil Engineers has decided to pick up the organizations responsibility of the EIT review sessions. It is the opinion of ASCE that students should still have the chance to attend review sessions for an exam of such importance. ASCE hopes that other professional societies will help in publicizing of the review sessions.

Sessions will start Tuesday, March 13 at 7:00 p.m. in CE 114, and all

students are welcome. The areas of fluid mechanics, engineering economy, statics and dynamics, electrical engineering, and math will be covered in the planned sessions. As stated the first session is Thursday, March 17, and Dr. Munger will discuss engineering economy. Tuesday, March 20, Dr. Sheffield will discuss Thermodynamics. Thursday, March 22, Dr. Morris will discuss fluid mechanics.

Tuesday, March 27, Dr. Cunningham will discuss Electrical Engineering. The session on Thursday, March 29 will cover mathematics. Tuesday, April 10, Dr. Oster

will discuss statics and dynamics. For further information contact Steve Starrett, ASCE EIT Review Committee Chairman at 341-2423.

AI begins refugee campaign

Amnesty International
SOURCE

On the beloved Rolla holiday of St. Patrick's this year, Amnesty International begins its campaign for the right of the refugees in this country. This campaign focuses on the holding and treatment of the many refugees in this country's jails. The refugee situation in America is not strictly a problem of the border or coastal states, but is also spread to the middle of the nation as many refugees are being transferred to other jails to prevent overcrowding in other areas. Amnesty's refugee campaign begins on March 17th, and will run through December of 1990.

Along with the refugee campaign, the Amnesty International student group on campus is focusing attention on the status of the death penalty in Missouri. Currently in the Missouri legislature are two bills dealing with capital punishment. The first, House Bill 1374, concerns the execution of juveniles and the mentally retarded. The current law allows 14 year olds to be executed. The bill would raise the age to 17 years and would also take into consideration the mental health of those convicted. In the 1980's, only four other countries besides the United States executed juveniles; Bangladesh, Barbados, Iran and Iraq. The other bill under consideration, House

Bill 1486, calls for a five year moratorium on death penalty sentencing and executions in Missouri and for the establishment of a commission to

"study and examine sentencing disparity among social and economic classes in relation to the death penalty." A result that this study would be likely to find is the fact that in the past 90 years, 23 innocent people have been executed in the United States.

If you want to know what is happening to human rights in this state and the rest of the world, come to a meeting of the AI group here on campus. Students, faculty and Rolla residents are invited to all AI group activities. For

more information, including how to become an individual member of Amnesty International, contact Jim Kaiser at 364-9932 or Linda Pluschke at 364-9391. Have a merry St. Pats and remember human rights over the break.

Last chance to buy 1990 GREEN



This is your last chance to purchase 1990 GREEN. If you already have some 1990 GREEN, buy some more, if you haven't bought any the St. Pat's Board will be selling green at the GONZO, the games and at Alice. But don't delay, when it's over it's over the fat lady doesn't have to sing.

Blue Key Miner of the month, Bryan Audsley

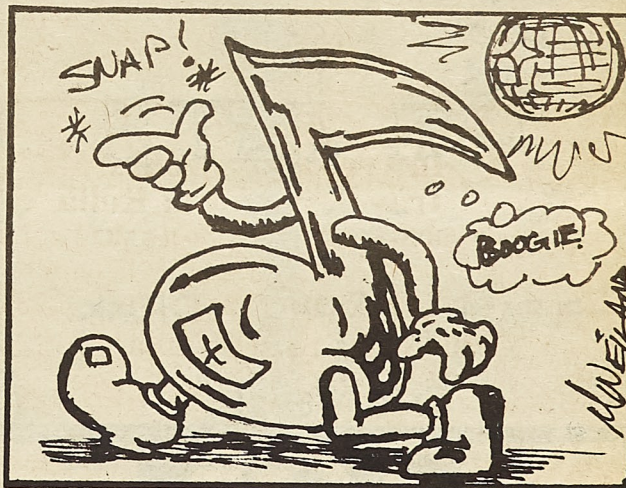
Blue Key
SOURCE

Blue Key is pleased to announce that Bryan Audsley has been selected as the February Miner of the Month. Bryan, a graduate student in Nuclear Engineering, was nominated by the American Nuclear Society (ANS) for



his work as conference chairman of the ANS 1990 Midwestern Student Conference. The conference, held here at UMR on February 23 and 24, 1990, featured technical presentations by undergraduate and graduate students from a 19-state region. Bryan was instrumental in fundraising and organizing the technical and social programs for the conference. Congratulations, Bryan!

KMNR hosts Glitterball



KMNR
SOURCE

Friday night at approximately 7:59 p.m. those party animal KMNR DJ's will be breaking all kinds of records in order to get to Knights of Columbus Hall by 8:00. Why? Because that's when the 1990 KMNR Glitterball is scheduled to explode in a joyous ball of mirth and merriment.

If you plan to attend the Glitterball this year you may need directions. So here they are. Fly down Highway 63 heading towards Wal Mart from UMR. Make a right on to Highway 72 at the stoplight. Cruise down to the four-way stop. You'll see Johnny's Smoke Stack on your right. Continue to drive straight as you pass the

cemetery on your right. Then immediately make your first right. Go to the top of the hill and the party palace, Knights of Columbus Hall, will be on your left. Be sure to bring an ID!

Of course, in all the excitement of getting there the KMNR DJ's will be sure to be careful and have a designated driver, as should you. But don't let that bum you out, because everyone who shows up can still enjoy the sounds of the KMNR Roadshow, dancing, mingling with other partygoers, and a chance to win one of several unique door prizes.

Also, if you want to see Shooting Star this Saturday night but are too much of a cheapskate to shell out the \$3.00, KMNR has been giving them away all week. The last pair will be distributed Friday, so there's still plenty of opportunity to win.



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Joan Jett begins her American tour in Joplin

After her last album Up Your Alley became a smash, Joan Jett has released a compilation of cover tunes that is proving to be one of the hottest records on the charts. Her remake of "Dirty Deeds" by AC/DC has already gone gold, and the followup single should take her even farther.

by Babu Barat
STAFF WRITER

There seem to be a very few occurrences in the music industry that actually take me by surprise. Usually I tend to hear the usual or the expected, especially when it comes to rock 'n' roll. So when I was driving to work one day and I heard my favorite radio station playing a remake of the great AC/DC tune

"Dirty Deeds Done Dirt Cheap," vocalized by a female, it really caught my

hear. As I listened closer I began trying to figure out who it was singing. No! It couldn't be!... Sure enough... it was Joan Jett. Yes, the same Joan Jett that

wrote and performed such anthems as "I Love Rock 'n' Roll" in the early eighties, and "I Hate Myself For Loving You," towards the end of the decade. I have to admit that I never was much of a Joan Jett and the Blackhearts fan when she first appeared, post-Run-aways. But album after album Joan has progressed as a singer and overall artist; and with her album Up Your Alley, released in 1988, she has become one of my favorite performers, as well as one of the most popular rock performers in the world. Her latest release, The Hit List, on which "Dirty Deeds" can be found, is a collection of classic songs covered in an inspiring, yet memorable, way.

"This is not the next Joan Jett and the Blackhearts record," contends long time producer and manager Kenny Laguna. "That's why it only lists Joan Jett on the cover," he adds. "This is a record that we did mainly for the fans. We didn't do it for the press or even for radio. We did a video because that is the way of the ninties. The next thing we knew the video was going crazy, the record was going crazy, and the radio was playing it. Suddenly there we were in the middle of a project. Joan is currently in the middle of another album that is more classic Joan Jett and the Blackhearts." Listening to past Joan Jett records, you may remember that there have been several songs that Joan has covered including "Wooly Bully" by the Sam The Sham, "Shout" by the Isley Brothers and "Lesley Gore's "You Don't Own Me" off of her debut album Bad Reputation; and "You Got Me Floatin'" by Jimi Hendrix and "Fun, Fun, Fun" by the Beach Boys off of Good Music, as well as a few other. Jett has always done wonderful covers. That was one of the main reasons behind the release of The Hit List. "Every record that we have done has had a couple of cover songs on it. We have had some interesting choices over the years. We were fishing around



Courtesy CBS Associated Records

Joan Jett appears to be in top form on her latest record The Hit List (CBS Associated) which she will performing cuts from when she appears at Memroial Hall this Friday.

see Joan Jett, page 10

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Joan Jett

from page 9

for one or two that would be good for the new album. We had a couple, then a couple more, until we had about six. We were loving our little cover set while we were in the studio. We weren't really taking it seriously. One of the CBS vice-president's came down and just couldn't believe what he was hearing. We actually started with twenty-one different songs, but we still didn't really commit to the fact that we might put out a record. The tentative thing we were trying was an album called "Joan Jett's Greatest Hits," which I had been toying around with the idea for seven or eight years; at different stages. It was almost tongue in cheek. Not really serious at all. But we had so much excitement from the label that it encourage us more. So we said o.k., let's put out a special Christmas package for our fans. So just as we were getting it ready, doing the cover art and the title, the marketing people said you can't call it "Joan Jett's Greatest Hits." If you call it that then the kids are going to buy it thinking they are getting her hits. I said, well that's the joke. But they talked us into getting another title. Anyways, we were a little late delivering it before Christmas."

Regardless, The Hit List was well worth the wait. It proves that Jett can not only make it with her own material, but can cover classic songs, leave her trademark sound on them, and still make them sound great. She doesn't change any of the tracks to the extent that if you liked the original then you wouldn't like the re-

make. In the majority of cases I preferred the cover to the original. Highlights on the record include "Dirty Deeds," ZZ Top's "Tush"; The Doors "Love Me Two Times"; "Celluloid Heroes" by the Kinks where Ray Davies actually came down and gave his blessings to Joan while in the studio, and topped it off by singing backup as well; and the next single and video "Love Hurts," which has recently been done by the Everly Brothers and Roy Orbison. "There wasn't a lot of thought put into this record," Laguna stated. "We just went in and did it. There wasn't any concern for continuity either. We weren't concerned with anything that made sense. That's why you have "Love Hurts" sequenced into "Pretty Vacant" by the Sex Pistols. The idea was what felt good for Joan to sing and the band to play. These aren't our favorite songs necessarily, even though we love them all. They're not our roots, but in a certain sense it is. The Sex Pistols are definitely a part of Joan because she actually played with them and toured with them. She was part of that movement. What we did for The Hit List was go to different cities and see what classics rock radio played. One day we were driving down the road and Joan heard "Love Hurts" and said she liked the song. So we tried it; never thinking it would actually work. That was an off-the-wall choice. I thought it turned out great even though it wasn't expected to. Another song we tried was "Low Budget" by the Kinks. I gave

Joan a CD with "Low Budget" on it she kept listening to the song. It just so happened that the song after it was "Celluloid Heroes" and she kept coming up and asking me to try it. You see, "Celluloid Heroes" had less impact on Joan when it was out than it did when she was listening to this record. She said 'I love this song. It reminds me of when I was growing up in Hollywood walking down Hollywood Boulevard. I'd like to take a shot at it.' We all chuckled. But I didn't handle it so well, so Ray (Davies) actually came down and helped out."

Even though Jett will be hitting the road to tour for a few months she is still working on her follow up to Up Your Alley. "We came up with this idea for Hit List while we were working on the new record so we still have the other songs we were working on," says Laguna. "There's a song called

"Ashes In the Wind" and some other songs that are just unbelievable. I hope to have some things that are just like Up Your Alley, and some that are different. I love that particular sound that is identified with Joan. You can expect some of that. We also have some amazing, amazing slower songs.

I hope that Joan chooses to go with some more outrageous production, but that is up to her. We are in the middle of recording that particular album. Those albums take us a long time to do. We feel a lot of pressure doing them. The record company is expecting the record in time for Christmas, but if I were to guess, it probably won't be done until at least the beginning of next year. We really want this one to turn out good. We are in no hurry to finish it. Joan will tour through May, with the exception of some European festivals, and then come off the road to complete the record."

Laguna added that the tour is really making it tough for Joan to complete the album, but it palying live is something she just has to do. "The tour really doesn't mix well into Joan's schedule but she loves to play. Eventhough people don't hear about it, Joan is always on the road. Like in December she played Singapore and Taiwan. She plays cities that acts don't usually play. It's unusual for a week to go by without a couple of dates. It's just the way she is. That is Joan's way of staying sane. Wherever she gets fanmail from she tries to play.

She wouldn't have been satisfied with going through this spring without touring. So this tour is turning out to be support of the record, but it is not the only reason we are going out." For those fans who really love this record expect to hear about five songs off The Hit List as well as all your other favorite Joan Jett and the Blackhearts songs.

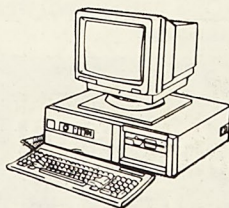
Joan Jett and the Blackhearts will be appearing this Friday, March 16 Memorial Hall in Joplin. This is the first show of her American tour which should prove to be one of her best tour ever. There are some special attractions added to the show that shouldn't be missed. Unfortunately you'll have to go to the show to see what they are. Her special guests will be Britny Fox. This double bill should prove to be truly devastating. Tickets are still available, so don't miss it!!!



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Southwinds - UMR's Literary Magazine desperately needs photo and artwork submissions for the 990 edition. Deadline for contributions is March 990. For more information, inquire at the English Department, 3rd floor, H-SS Building or call 64-3337.

Concert Videos: We've got last weeks Motley Live concert from Columbia on videotape. Plus many others including Whitesnake, Scorpions, Jon Jovi, Skid Row. Write for complete price list. J & B Enterprises, P.O. Box 1161 Rolla, MO 65401.

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For Sale: Yamaha 6 string acoustic guitar for \$125, call 364-2079.

For Sale: 35 MM Olympus OM 10 Camera; 3 lenses (28, 50, 135 mm); flash, leather bag; excellent condition - \$325. Call 341-2423.

IRC's Annual SHAMROCKER, March 15th, Thursday, 8pm - 1am, Rolla Inn. Buses running from TJ and Quad, music by KMNR Roadshow. An Open Campus activity. Come on out and show your St. Pat's spirit. IRC = the Inter-Residence Council

Disks for Sale: Double sided, double density w/ tabs, sleeves and labels. 10 for \$5 or 50 cents each. Call 341-8598.

For Sale: Pioneer Stereo Receiver. Excellent condition. For more information call 341-2721.

Personals

All classifieds must be legibly submitted on a full 8.5" x 11" piece of paper, or they will not be printed.

Thanks,
Miner

Hey Lerch,
SPLASH

In Hoc

John T.,
Sorry I didn't meet you at the library. I'll be in touch. Maybe you'll see me over St. Pat's.

Jennifer G.

Lisa,
May you have a very enjoyable time on this March 14th, Rich has the date in which you were born.

Dear Miner,

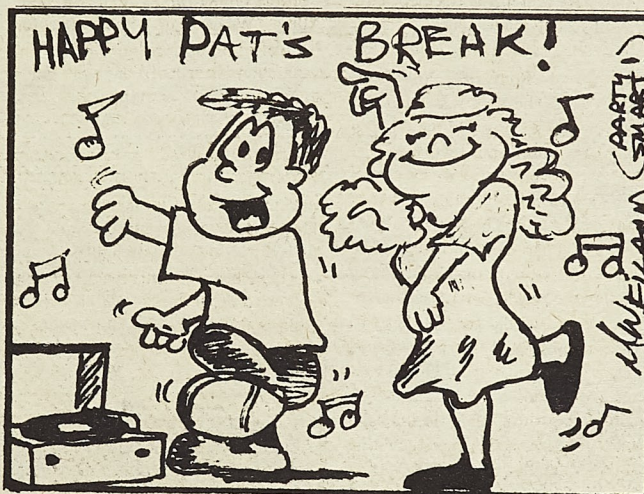
I would like to say that in the past 6 months, there has been a great improvement in the Miner. I can't give specifics, but rather a total increase in professionalism and class. I like it, keep it up!! I am an alumn of UMR and read the Miner whenever I get the chance.

Carrie

S.,

Don't believe a word he says!

Dangerous



Hey John,
Have you bought the lavalier?

Your roomie

Matt M.,
Thanks for the "secret" information last Wednesday - you were great! Hope to see you soon, loverboy.

All your Chi-O Admirers

Jaxon,
You are the best Big Brother! Thanks for all that you do for me.

YLS

Nancy n.,

Next time, we're charging \$3/hr for b-b sitting duties, hee, hee.

Your Chi-O neighbors

Bundschuh,

With all the engineers at this school, I'm sure someone can calculate her water displacement.

Chi-O's are AWESOME

Bob,

I hope once a knight's enough for you! I love you.

Kath

KA-

Get psyched for TFIW with some wild-n-crazy ...

Chi-O's!

Stew Queen #2,

Let's party up St. Pat's and live up to our name.

Stew Queen #1

Tiger,

As I write this, you are far away, & I am alone, missing you. As you read this, you are here by my side, we are together at least, & I'm very happy. I'm grateful for our time together - Love you!

Teddy

Brian & Kevin,

You guys can cook next time!

Les

B*2,

We miss strawberry daquaris & you pointless stories. Come bug us soon.

LiCO,

inhabitants of 252 South

Pledge Stew Queen,

You're passing me up, but you will never take my title.

Stew Queen #1

To whom it may concern:

Usually only small people hold grudges but that does not apply in your case.

Les

Boyce

Madelyn,

Happy 18th!!

BamF

Amy-geekmo-

You're the coolest - get ready to PARTY! The stewqueens must keep their rep up!

LiCO,

NERD

Fer,

Get psyched for Pat's & keep that chin up!

ZLAM,

Les

T. Dunlap,

Hope to see you at Casino Night!

?

Julie & Iris,

19 days till the best ever!

see, Classifieds page 20

You're astute enough to discuss the philosophical ramifications of Victor Frankl's "Existential Vacuum."

And you're still smoking?

U.S. Department of Health & Human Services

Make A Run For The Border With These Money-Saving Coupons!

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Crispy chips with beans, ground beef, sour cream, cheese sauce, tomatoes, green onion and olive.

Please present coupon when ordering. Limit: one coupon per person per visit. Not good with any other offer. Cash redemption value is 1/20th cent. Good only at participating Taco Bell restaurants. Tax not included. Offer expires May 31, 1990.



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The meal in a bowl you can eat! Beans, lettuce, ground beef, cheese, tomatoes, sour cream, olive and green onion in a light, crispy flour tortilla.

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Mexican Pizza
\$1.49

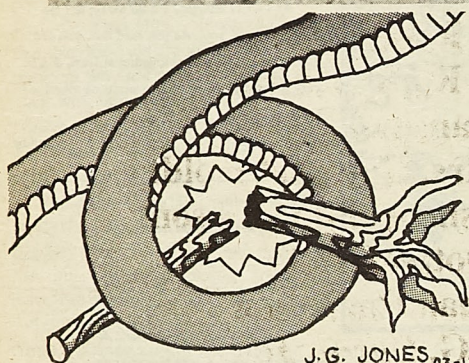
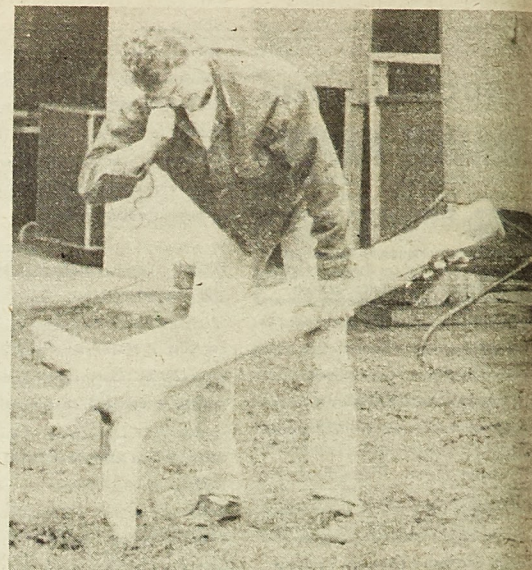
A special pizza shell topped with beans, ground beef, special pizza sauce, tomatoes, American and Pepper Jack cheese -- melted and garnished with green onion and black olive.

Please present coupon when ordering. Limit: one coupon per person per visit. Not good with any other offer. Cash redemption value is 1/20th cent. Good only at participating Taco Bell restaurants. Tax not included. Offer expires May 31, 1990.



1201 Bishop, Rolla, MO

St. Pat's: the revelry has only just begun

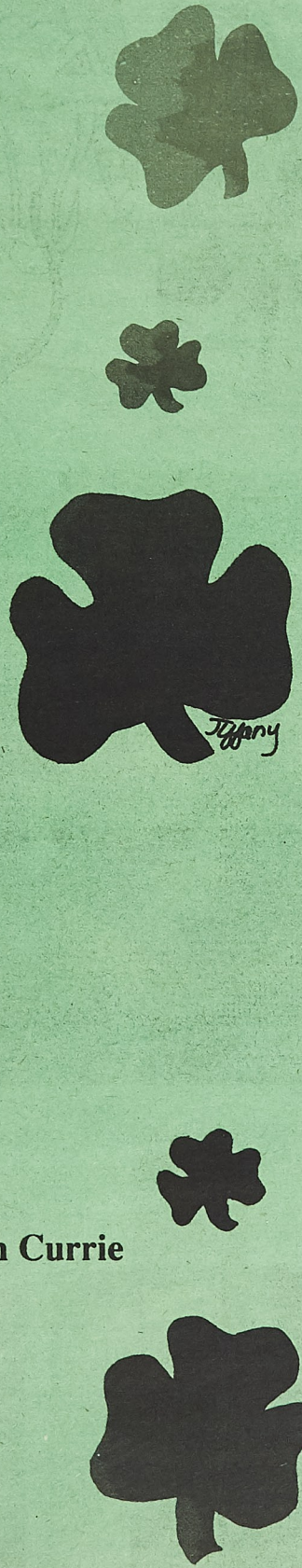


J. G. JONES 03-12

Top left: Chris Altenbernd, Sigma Tau Gamma, and Matt Roberts, Triangle, doing their duty as freshmen to rid the campus of snakes. Top right: HEY FRESHMAN, BITE ITS HEAD OFF!!! Right: The court turns on one of their own with duct tape. Below left: The court strikes a pose with a thoroughly bound page. Below right: Mom comes to the rescue with a pair of scissors from her purse-o-plenty.



Blarney Club 1990



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Michael R. Avery
Louis H. Keil
John M. Kelly
James K. Richardson
James A. Owens
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John P. Rasor
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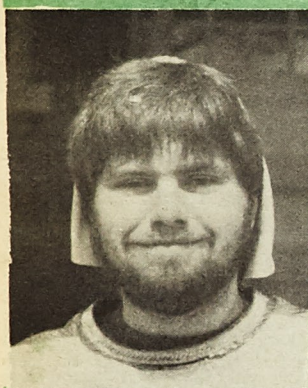
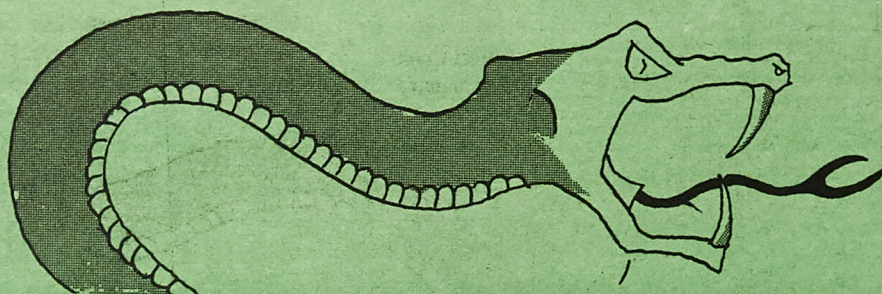
St. Patrick



David Bernhard
St. Pat

David Bernhard, son of Robert and Joan Bernhard of St. Louis, is a junior in engineering management. David has served the St. Pat's Board as president and float & parade chairman. He has been pledge trainer and social chairman for Tau Kappa Epsilon and is a member of Theta Tau Omega and Phi Eta Sigma.

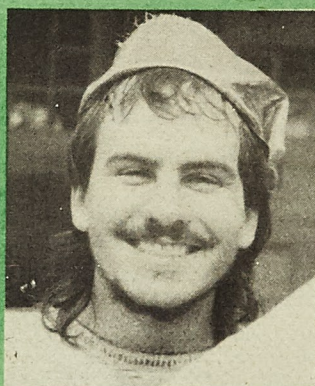
"The Courts' never been fatter, and it's never been better."



Timothy Harster
Guard

Timothy Harster, son of Joseph and Mary Jean Harster of St. Louis, is a senior in ceramic engineering. Tim has served the St. Pat's Board as secretary and gonzo and games chairman. He has been financial secretary and special events chairman for Phi Kappa Theta fraternity and is a member of Keramos and the American Ceramic Society.

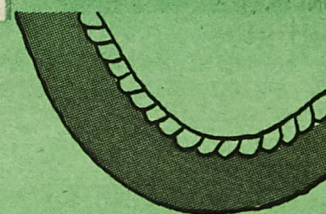
"It's okay Doc, we're a much kinder and gentler court."



Mike Hurst
Guard

Mike Hurst, son of Lawrence and Helen Hurst of St. Louis, is a senior in civil engineering. Mike has served the St. Pat's Board as parade fund chairman and local publicity chairman.

"Whether you like it or love it, it's the best thing going today. St. Pat's 1990."



Rusty, daughter of Marty and Betty Bucher of St. Louis, is a sophomore in petroleum engineering. He has served the St. Pat's Board as costumes chairwoman. She has been historian and DPC for Sigma Nu fraternity and is a member of SPE, AIAA, and Spelunkers.

"Court seven, MOM zero. Doc — I QUIT!!"



Mike Dyess
Herald

Mike Dyess, son of John and Carolyn Dyess of Kirkwood, is a senior in electrical engineering. Mike has served the St. Pat's Board as trophies, ways & means, social, and town coordination chairmans. He has been house manager and herald for Sigma Pi fraternity and is vice-president of Gamma Alpha Delta.

"It's all fun and games until somebody loses a contact lens."



Andy Storf
Page

Andy Storf, son of Karl and Carole Storf of St. Louis, is a senior in electrical engineering. Andy has served the St. Pat's Board as decorations and alumni sales chairmans. He has also served as social chairman for Sigma Tau Gamma fraternity.

"It's been fun all along, but now's when the good times roll."



Russell Bucher
MOM

ed his court



Michael Cook, son of Robert and Virginia Cook of Bridgeton, is a senior in electrical engineering. Mike has served the St. Pat's Board as Sales Manager and National Publicity Chairman. He is a member of Sigma Nu fraternity.

"Time is just a waste of life, life is just a waste of time, let's just get wasted and have the time of our lives."



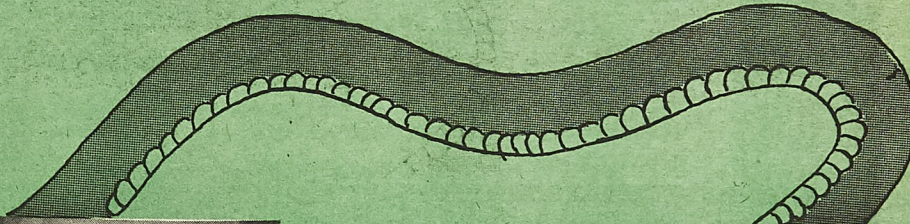
Michael Cook
Master Guard

John Spencer, son of David and Elizabeth Spencer of St. Louis, is a senior in ceramic engineering. John has served the St. Pat's Board as treasurer and campus sales chairman. He has been 1st vice president, secretary, and athletic manager for Beta Sigma Psi fraternity. He is also active in the Intramural Manager Association, Keramos, and the American Ceramic Society.



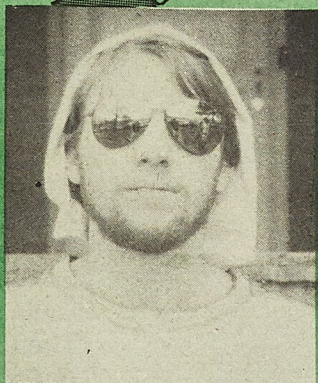
John Spencer
Master Guard

"Master of puppets has the most fun."



Jason Lowry, son of Ken and June Lowry of Raytown, is a junior in mechanical engineering. Jason has served the St. Pat's Board as vice-president and follies chairman. He has been president and keeper of the door for Kappa Alpha fraternity and he has been treasurer of Kappa Mu Epsilon.

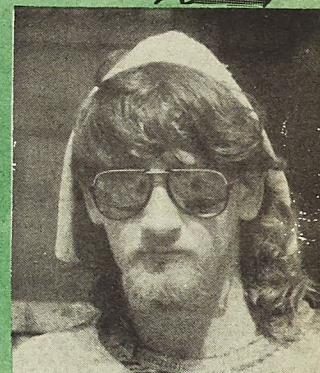
"I may be responsible, but it's my time to be DAZED and CONFUSED."



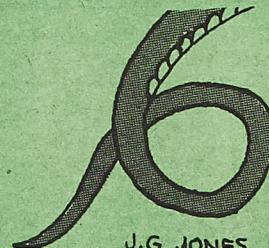
Jason Lowry
Guard

Brad Wadle, son of Dennis and Francis Wadle of W. Des Moines, Ia., is a junior in history. Brad has served the St. Pat's Board as Queens Chairman, Septemberfest Chairman, and Parade Fund Co-Chairman. He has been pledge class president for Pi Kappa Alpha fraternity and is involved in intramural football and wrestling.

"Living a lifetime in just 9 DAZE."



Brad Wadle
Guard



J.G. JONES
03-12

Pro-Rate, a Lab and Shepherd mix of unknown parentage, is a junior in Life Sciences. She has served as steward and social chairwoman in Delta Omega Gamma. On campus she has been active in SCE (Society of Canine Engineers) and the Trap and Skeet club.

"I can out party Spuds Mackenzie anytime, anywhere."



Pro-Rate
Court Dog

Allan Bush, son of Adelle Bush of Independence, is a junior in civil engineering. Allan has served the St. Pat's Board as dance & bands chairman and as historian. He has been social chairman and treasurer for Triangle fraternity and has also been sergeant at arms for Intercollegiate Knights.

"St. Pat's is the best, 1990, Bush-hog rules."



Allan Bush
Page

James Baldwin, III, son of James and Susan Baldwin of Downers Grove, Ill., is a junior in engineering management. Jim has served the St. Pat's Board as ceremonies and public relations chairman. He has also been involved with the UMR volleyball club, ASEM, and has participated in many sports for Alpha Epsilon Pi.

"Hey Doc! If you've got steak, we've got chicken."



James Baldwin
Trumpeteer

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Callen Grocery
EZ Life Limousine Service
CB Auto Parts
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Mystery and betrayal plague two sisters

by Nora Okong'o
STAFF WRITER

(Last week: Carol's joyous news of her engagement sends her younger sister, Jenny, storming out of the room. Find out why.)

(All characters herein are purely fictitious. Resemblance to persons known or unknown, living or dead, is purely coincidental and must be construed as such.)

Paul stared after his younger sister in amazement. This was hardly the reaction he would have expected from her. Had the strains of living finally stretched her mental capacities beyond their breaking point.

"What's with her?" Carol wondered, equally surprised. The eight-carat diamond engagement ring would have one admirer.

"I knew she didn't exactly take to Adrian, but I didn't think she disliked him so much."

"Maybe she just finally flipped out. Or else this is one of her stupid jokes."

She was irritated, and more than a little upset. Determinedly she strode up to Jenny's bedroom door and knocked.

"Come in," was the feeble reply.

Jenny was sitting on the floor leafing through a college catalog. She didn't even look up as Carol entered the room. "You don't seem to happy that Adrian and I are getting married," Carol remarked.

"Should I be?"

"I should think so. Even if you don't like him, try for my sake. At least I pretend you do - you've always been a pretty good actress."

"I'm not going to lower myself to his level."

"What is that suppose to mean?"

"You'll see," Jenny said, in a mysterious tone that left no doubt that the end of the conversation had been reached. Carol watched her flip a few pages in silence, then said, with an air similar to that Archimedes might have had when he discovered the principle named after him, "I know what this is all about! You're jealous, aren't you?"

"No, I'm not, because there's nothing to be jealous about."

"You're jealous, all right. Here I've met this wonderful guy and my life's just coming together so beautifully, and your's is just falling apart."

"My life isn't falling apart. Anyway, I told you enough times what scum I think he is, and frankly speaking, I have better things to do with my breath than spend it on Adrian. If you want to ruin your life, that's your business, not mine."

Carol decided to heed the tone of finality this time, and left. Jenny didn't just dislike Adrian, she hated him. Or maybe it was jealousy eating away at her good sense. Carol shrugged. There had been a time when she could read Jenny like a book, so clearly did her little sister express her emotions. It wasn't like Jenny to be so scornful - she was usually cheery, often irritatingly so. She had been going to ask her to be her best maid, but on second thoughts that didn't seem to be a good idea. She would ask Cynthia, or maybe Kate, both good childhood friends.

The clink of glasses and the subdued hum of music harmonized perfectly with the music from the stereo. One of

It took Carol a full four seconds to realize that he was talking to her, and that Jenny wasn't in the room.

"It's Jenny, isn't it?" he asked, since his greeting was not returned.

Carol shook her head since there was no way anyone would mistake her for her sister (they were so different this must be some cheap line this man was pulling on her).

He smiled. "This is like the first time I had to squeeze your name out of you, remember? What did you do with your hair? It looks pretty good."

"I'm sorry," she finally said. "I'm not Jenny."

"Well, you're here with Adrian aren't you?" he asked, as though that was logically connected to her name.

was just a load of hot air?"

"Carol, come over here and meet someone," Adrian called.

"Carol?"

"Excuse me," she said, and left him gazing after her with a puzzled frown.

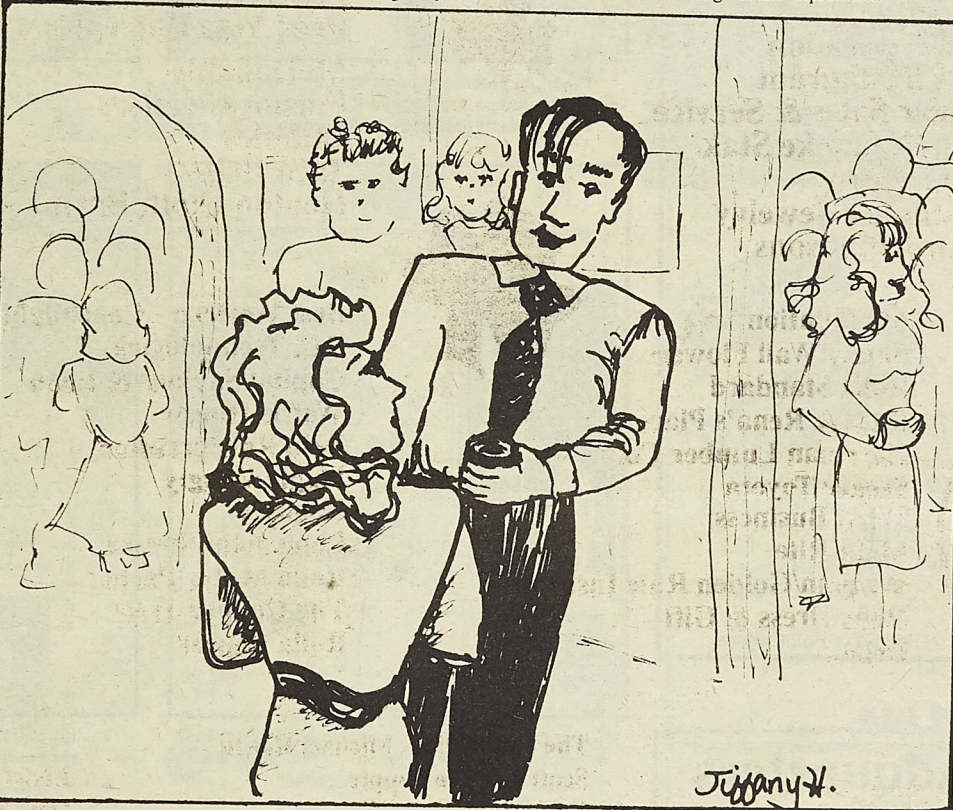
Later, Adrian asked, "Who was that guy you were talking to?"

"Actually, he was talking to me. I don't know him, but he was convinced I was Jenny."

"Jenny? How would he know her?"

"Apparently they met at some party where she pulled a crazy stunt. I guess she was still in college then."

There was a slight, but perceptible change in his expression.



Tiffany H.

Adrian's friends (was it Bob?) was hosting the party. Everything was subdued and elegant. Adrian was busy making himself known - who knew when these contacts would come in handy? Carol tagged along, smiling when she was introduced, but mostly gawking fearfully at the door. She wished Adrian hadn't invited Jenny - what if she showed up? Knowing her, it would probably be in jeans and a shirt that the other guests would consider inferior to rags.

"Hi, Jenny," a pleasant male voice said.

Her heart stopped and she almost dropped her glass as she whirled around to face what she knew would be the incarnation of her worst fears.

The owner of the voice continued, "Long time no see."

Carol faltered. "Yes - yes, I am."

"You must be out of school by now. Found a job yet?"

She tried to be polite. "Yes, I have."

He looked at her in surprise. "You were a lot more talkative the last time we met."

"I don't think we've ever met before."

"Come off it! How could anyone forget that party? Especially after that crazy stunt you pulled."

Sounded like Jenny, all right.

"How are you and Adrian coming along?"

"Just fine. We're engaged to be married."

He whistled. "Already? So all that stuff about not wanting to commit just yet and waiting five years

"What else did he say?"

Carol had an uncanny feeling that Adrian already knew the answer to the question, but she said, "Nothing. I wouldn't let him."

There was another, equally slight change in his expression, as he relaxed. Carol tried to banish the thought, but it was too stubborn - Adrian and Jenny together? That was crazy. But that guy had seemed so casual and convinced...

The evening now dragged along; she was glad when they finally left. Once home, her only intent was to get some sleep. Instead, she tossed and turned. When she had first introduced Adrian to Jenny, neither had given any sign that they had met before. Anyway, she wasn't his type. She had never been and she never would be.

Eventually, she gave up on getting sleep. She had to talk to Jenny. To her surprise, Jenny was still awake, filling out application forms as she had been doing all week. Carol decided to use the direct approach. Perhaps Jenny would appreciate it.

"Why didn't you tell me that you went out with Adrian?"

Jenny laughed. "Why are you so upset? I thought you knew. Anyway, it was just one time."

"One time! Really?"

"Yes, really. It was some stupid party. He talked me into accepting some stupid dare."

"Adrian would never do anything like that."

"Well, he did." She smiled ruefully. "We just got talking. It was no big deal. We went out to dinner once, and that was the end of it."

"Obviously he moved on to better things."

"No, I did. I learned a lot about Adrian - he only thinks of himself. He kept saying that he was looking for a serious relationship, and acting like he was only out for a good time. I wasn't ready to get serious with anyone anyway."

"Might as well console yourself. He's not your type."

"You're right about that. I can't stand self-centered hypocrites like him. And while you're on the subject,

ask yourself why he never told you about us. Maybe it would ruin his spotless reputation to be at a wild party."

Carol sighed. She knew she wouldn't be able to approach Adrian.

"You've made up your mind about him and I'm not going to try to change it. Just be prepared to share him with his ego."

"Why were you upset when I told you we were engaged?"

"I just over-reacted I guess." Sud-

denly animated, she continued, "He said I was the only one. He was going to help me through college, and get a job." Now on the verge of tears, "He set a job interview and said he'd call. I waited all day, Carol; and he never called. The next time I saw him he had found another girlfriend. And then he and Dad go on about finding me a job... and then he wants to marry my sister."

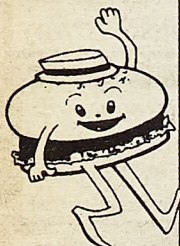
"We didn't just go out once, Carol, we went out for a whole year."

Carol stood up abruptly and left the room. Now she too could burst into tears. But it was over now. It shouldn't make any difference to their relationship, should it? Perhaps by the time she next saw him, she would have convinced herself.

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THE FAR SIDE

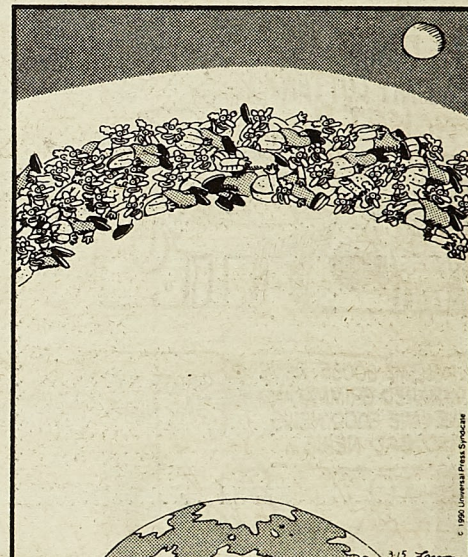
By GARY LARSON



The night before the hunt, Neanderthals would carefully prepare their weaponry — often employing the help of the deadly club-poison frogs.



"Henry! Our party's total chaos! No one knows when to eat, where to stand, what to... Oh, thank God! Here comes a border collie!"



The bozone layer: shielding the rest of the solar system from the Earth's harmful effects.

St. Pat's Headquarters



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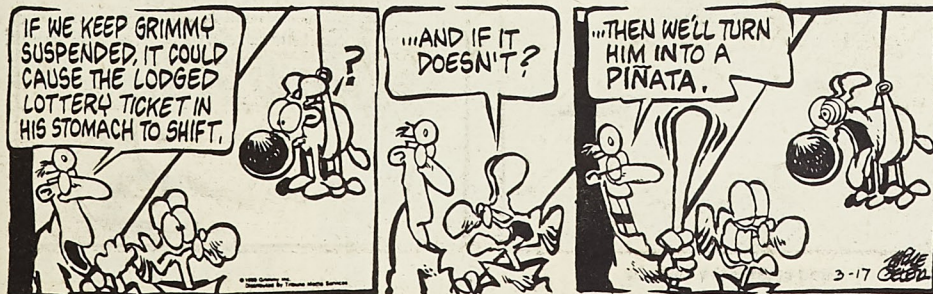
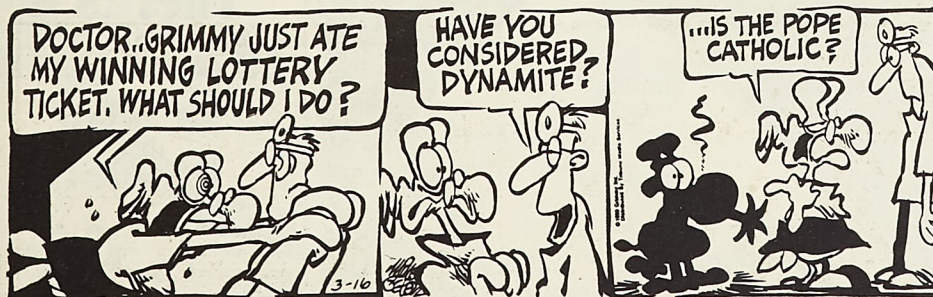
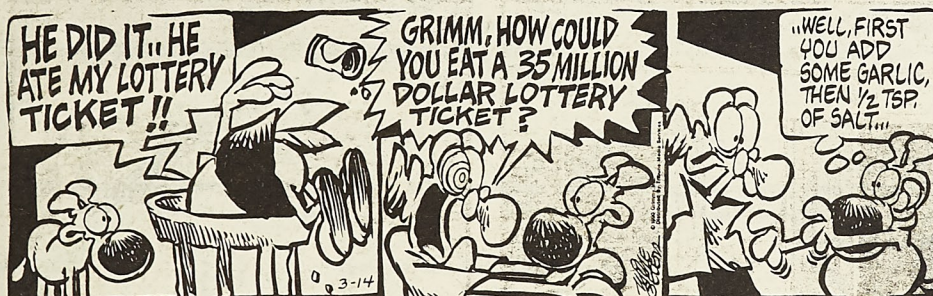
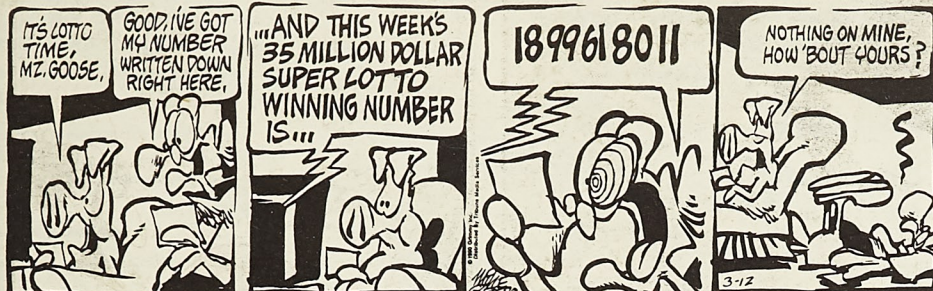
God creates the animals.





Mother Goose & Grimm

by Mike Peters



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Classifieds

from page 11

G-eL, Who are we going to take to formal? DD	CJ at KA- Why Bart? Just Wondering	Dance Teacher, I'm ready and willin' to learn a step or two! I can't wait for those private lessons! Quick Learner	J.B., DAnne, Beth, Tara, & Amy, Thanks for the B-Day surprise. You guys are the best. In AOT, Ann	Koinonia, Don't forget the statewide retreat coming up, April 6-8 in Bourbon, MO. Make plans now. Also, come by the Life Talks in room 333 TJ on Monday nights at 6:30 p.m. See ya there. Your Prez
Yuzzo- I'm sure you've got me saying I'm sure - Nerd! LiCO, YLS	Tim, Have a fun St. Pat's! Love, YLS Lori	Stewqueens & pledge reign! To my handsome boyfriend, I love and miss you very much! Your Hot Babe	KAR, New age limit: 25 Minimum. L.	Hi Quay & Mike! I bet you never thought you'd get a classified from me. Your favorite lab partner
Romeo: Definitely keep that call sign. Thanks for a great weekend and even better talks during the week. Try not to have too much fun there without me. MISS YOU!! The Redhead.	Jacquie, Thanks for everything! (especially always being there 4 me!) P.S. Thank your mom for me - where's the silverware? -C	Nina, You know who to ask to formal. So ask him! Kimmy	Becky P., You have to party with me more! Kimmy	H-ball, Who do you love? A neighbor! Her Roomie
Brian, Mike, Bill, & John, Have a great St. Pat's! Love, YBS (Lori)	Laura S., Get well soon. Don't forget to get lots of sleep! Comp-u-nut	Missy & Cindy, You at least deserve one classified, even if you're too lazy to write! Shelly	Kelly Ann, Thanks for everything! You're the greatest! Look out St. Pat's - here we come! Love in AOT, LaChelle	K. Hoff- No cross-stitching this weekend! K
Kerri, Next time remember why you're in church - geekmo. LiCO, NERD	Guru, Why did you move your beds together? What will you exchange next week? DD	Iris, Julie, & Les, We can't wait till you get here! Hurry! Thor, Dirk, & Brandon	Hey KDs, Get psyched for March 24th. It's going to be great! In Aot, Your Treasurer	Hey Lambda Chi Alpha, Thanks for the TGIF! We had a blast! Let's get together again soon! Love, KD
Krissy, Where R U?! Your "roommate"	Kitren & Anna, I hope you are having a fun semester. You're missing Florida	Holy Arbor Day Batman, Kirkwood has more trees than University City! Robin	Linda, Leann, Julie, Thanks! You demonstrate the true meaning of sisterhood. ZLAM	LaChelle, Can you please define "mutant" for me? I get so confused. Love in AOT, Ann
B*2, Why do you call me Opie?!!!!? Opie	Tina & Cindy, No more bride's magazines! I'm getting ill. Kimmy	Thumper: Keep up the good work. You know you can't go wrong with a redhead when you've got one cheering for you! Carrie	Shane, How's your red tie? Ha Ha! Kimmy	Congratulations Susan & Lisa on your jobs. You guys deserve it! Your roommate
	LOORA, Like I'm not gonna call you, Loora. Like we're not best friends. Ty	I'm back!!! Clue??	Kappa Delta pledges are the greatest! Sigma Nu, Theme party was a great time! We look forward to many more great times in the future! Love, Kappa Delta	Harry, Next time you want a pizza, don't come over here! A neighbor girl
		Matt, Get ready for formal. We are going to have an awesome time. Ann		

see, Classifieds page 21

UMR BOOKSTORE

Open
March 17
9:00-1:00

St. Pat's
Specials

Books,
UMR Gifts,
& Clothing

WELCOME ALUMNI

Located in the University
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UNIVERSITY OF MISSOURI/ROLLA STUDENT I.D.

John Doe

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There's a
10% discount
in your
pocket.

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TACO BELL®

Classifieds

from page 20

Nina,
Your gonna get what this weekend?
Hmmm?
Kimmy

Tim,
Have fun over St. Pats! I know I will!
Love ya,
YLS LaChelle

Jenni,
You are awesome! Keep up the good work
as St. Pat's chairman. We are psyched!
Love,
The Zetas

Tori,
You are sooooo confused!!
Listen, I smell do-nuts
P.S. Great ID picture!
J

Fierke,
I love A Sigma Pi - just wanted to make it
clear.

Deb,
Keep on plugging! You're doing an
awesome job! KD loves you!
Love,
YLS LaChelle

Hey Beerman!
You are never around! (Present 'L's') I
guess that 'old' woman keeps you too busy. We
miss you!
Don't be such a stranger

Deanna,
Another year. Another semester. Another
St. Pats. Another birthday! Happy 23rd!!
YLB #1

Kris,
When are you gonna do your laundry - 3
weeks from now?

Hey Ed,
Let's stuff Ralph into one of those campus
mail drop boxes! Are you game? It would
make mornings a little more interesting!
Think about it,
BEBFH

Pi Kappa Alpha,
You guys are the coolest! We miss you!
Love,
The X-Little Sisters

Tori,
Is ther a B-Swamp at Kappa Sigma? There
must be - we must be - we never see you at
home.
ZLAM,
The B-Pit

Ayako,
So much for technique!!
Your neighbor

Tiffany,
Congrats on the ROCK!! It's a blinding
beauty!
ZLAM,
Brooke

Doreen,
What decisions you've made!

Jill,
Who will it be this weekend?
Your Roomies

Tori,
Patience is a virtue, right?
ABZ

Nancy B.,
Now you owe me a classified.
Significant other B.

Ayako, Lisa and Lori,
I love my family!
Zeta Love,
Jill

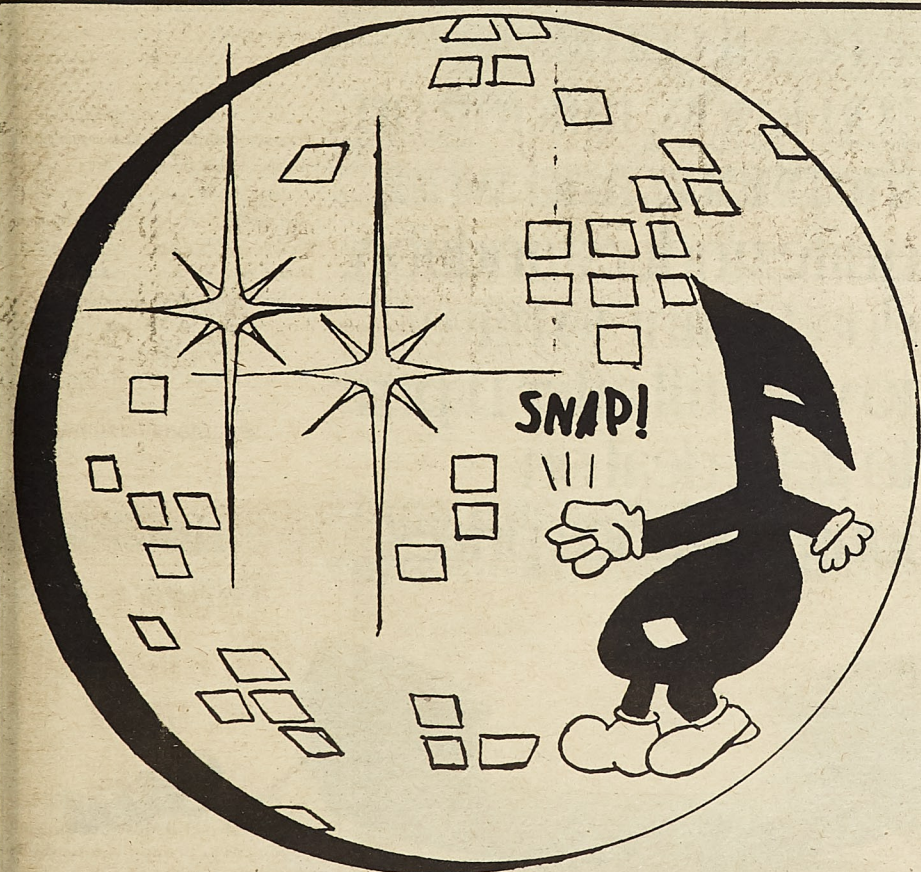
Derrick-
Let's Aerobicize.
The Aerobics Queen

R.T.S.C.C. (or just Toan),
Congrats on the runner up in the SUB
member of the month. You deserve it! Nobody
knows movies like you do! Good luck in semi-
conductors & power.
Your Roomie

Congratulations to Michael S. & Mamoud K.,
for getting A's on Chem E. Thermo II test!!
Keep up the good work!
Marilyn & Antonia

Hey Zetas!
Don't forget S.A.M.!! Bring the three S's!
S.L.F.D.D.K.

Jill,
Quit brown-nosing!
Barb



**K
M
N
R**

1990 GLITTERBALL OPEN CAMPUS

Friday, March 16 at Knights of Columbus Hall

8 pm to 1 am

Music by the

KMNR Roadshow
BRING I.D.

Family Planning PLANNED PARENTHOOD OF THE CENTRAL OZARKS

free pregnancy testing
educational workshops
reproductive health exams
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birth control supplies
evening hours available
sliding scale fee

MON&WED 8-7
TUES&FRI 8-5 THUR 8-12

All Services Confidential
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1032-B Kingshighway

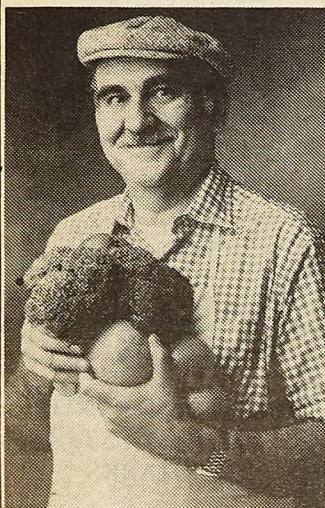
Private Rooms Across the Street from UMR

Now taking contracts for
next semester

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- Electric Heat
- Rent includes
Water
Electricity
Sewage
- Cafeteria Across Street
- Excellent Study
Environment
- Guys and Gals

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Rentals**
1102-1104 N. Rolla Street

**FOR THE BEST
DEFENSE AGAINST
CANCER, SEE YOUR
DOCTOR ONCE
A YEAR AND HIM
ONCE A WEEK.**



He may not look like everybody's idea of a cancer specialist. But there's strong evidence that your greengrocer has access to cancer protection you won't find in any doctor's office.

Like broccoli. Peaches. Canteloupes. Spinach. And other sources of Vitamin A related to lowering the risk of cancer of the larynx and esophagus. Not to mention sweet potatoes, carrots, pumpkin, winter squash, tomatoes, citrus fruits and brussels sprouts.

Vegetables such as cabbage, broccoli, brussels sprouts, kohlrabi and cauliflower may help reduce the risk of gastrointestinal and respiratory tract cancer.

Fruits and vegetables (and whole grain cereals such as oatmeal, bran and wheat) may help lower the risk of colorectal cancer.

In short, make sure you do what your mother always told you to do. Eat your vegetables.

**AMERICAN
CANCER
SOCIETY**

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- Sundays all you can eat
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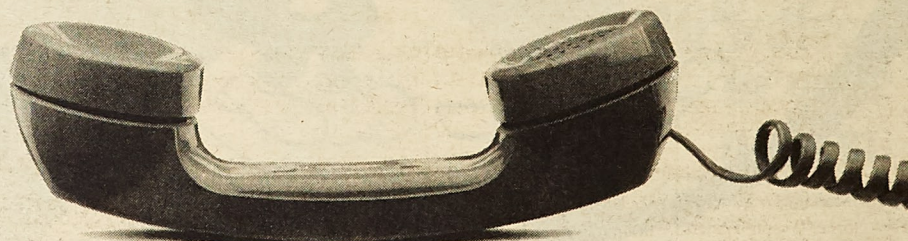
Rolla, Mo.
Closed Monday

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Parade. Serving Hot
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Coolers. Participating
in Shamrocks against
Muscular Dystrophy

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you know, talking on
the phone, and who,
quite understandably,
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Sports

Miners defeated in MIAA play-offs

By Matt McNett
STAFF WRITER

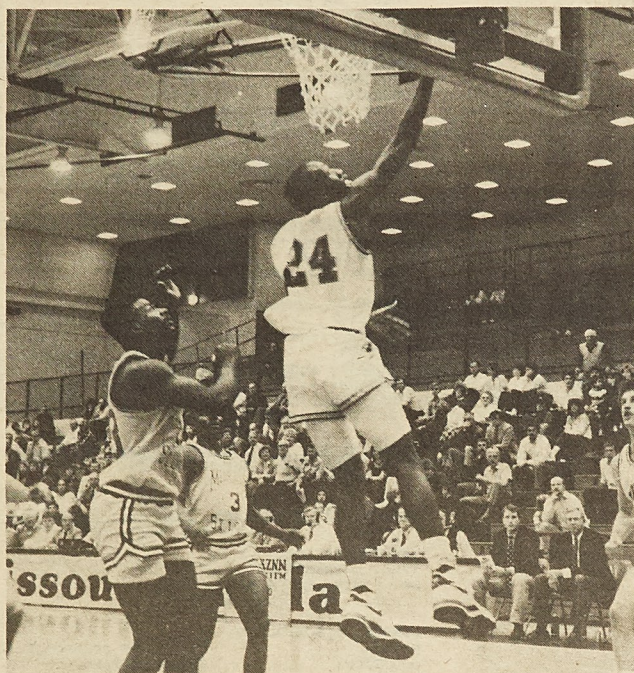
The Miners ended their season last Tuesday night in their first MIAA conference play-off game. They fell to Southwest Baptist University, the 11th ranked team in the nation, 76-62.

The Miners were victims of many misfortunes before the game even started. Tony Wofford, UMR's leading scorer, injured his ankle two weeks ago in a contest against Northeast Missouri and was unable to start the game. Two key players, Donnie Brown and Chris Dawson, suffered from the flu earlier in the day.

Despite these confidence breakers, the Miners managed to put together an exciting first half of basketball. The Bearcats controlled the first few minutes of play by scoring the first six points of the game.

Rolla later worked their way back and tied up the ball game at 19, after scoring six points without leaving their end of the court. Billy Jolly hit a three point jumper and was fouled. He hit his first free throw to complete a four point play. He missed his second shot and the ball was rebounded by Rolla, passed to Wofford, and he put it in for two.

The Miners would come close twice more in the half, but SBU hit a trey each time. The Bearcats received their biggest lead (10 points) in the half with 3:54 showing.



Susan Lowe

Tony Wofford puts up a shot during the UMSL game earlier this semester. Wofford's efforts during the season were the foundation for his selection to the all-MIAA squad.

Paul Neeman hit a clutch 3-pointer and Wofford scored underneath with three ties on the clock, to put the halftime score at 37-32 SBU.

In the second half the Miners would draw as close as 3 points after a tradition 3-point play by Neeman. At the 13 minute mark, SBU was on top 51-39. The lead was the result of

an intense SBU press that created three straight Rolla turnovers and six points for the Bearcats.

Chris Dawson then caught fire and tossed in five straight points. The Rolla spurt was short lived, however. Glenn Stanley had a steal followed by a slam dunk with 7:50 left to play. Ernest Hall was fouled by Neeman on

a made shot and hit his charity shot to make it a 3 point play. These plays combined to give SBU their biggest lead of the night at 62-47. To add insult to injury, Neeman fouled out of the game at this point.

The Miners made a gallant effort by pulling within eight, after Parmley's 3-pointer and Jolly's pair of free throws. The deficit would prove to be too much for the Miners. The game ended with Rolla on the short end of a 74-62 score.

Ernest Hall and Glenn Stanley showed why they were elected to the All-Conference first team as they scored 26 and 21 points respectively. Chris Dawson had an outstanding career high by tossing in 21 points. Wofford was held to eight and Neeman scored 16 before fouling out of the game.

The SBU victory was aided by outstanding free throw shooting as they hit 30 of 35. The Bearcats advanced to the semifinals to face Missouri Western last Thursday.

Coach Martin was proud of his ball club and described it as a very tough, hard fought ball game.

The Miners finished out their season with an over all record of 10-16. The season did not produce a winning season, but the Miners did reach many short term goals and created many promising highlights.

The Miners were hampered all season by the loss of two key players. William McCauley, Rolla's top re-

turning scorer, did not return this year due to a thigh bruise. The absence of the Miners' second leading scorer, Eric Brooks, was also felt.

The loss of William McCauley also meant the loss of much needed senior leadership. For most of the season, UMR started three freshmen, one sophomore and a senior. Two of the starting freshmen, Billy Jolly and Chris Dawson were named to the All-Conference Freshmen Team.

Coach Martin reflected on the season after Tuesday's game. "We had a very good effort from people I thought wouldn't get to play much this year." "I believe we learned a lot and we needed to keep improving and I believe this team did."

Although the 89/90 season has already ended, the 90/91 season has already begun for Dale Martin and his recruiters. Coach Martin expressed the need of help from the entire UMR campus to have a good recruiting year.

The Miners had an exciting year. They received double digits in the win column and made it to the MIAA play-offs. This was not an easy task considering three of the twelve teams are ranked in the top twenty in the nation.

Looking forward, you can be sure to enjoy an intense 90/91 season from the Miners. They are not guaranteed to win, but they are guaranteed to play hard. And with hard work, the wins will eventually come.

M-Club Athlete of the Week

M-Club
SOURCE

M-Club's Athletes of the Week for the week of March 2 to March 9 are Ray Hawthorne, Tyson Foster, and Scott Musgrave. All three are members of UMR's men's indoor track team. This trio received All-American honors this past weekend at the NCAA Division II National track meet in South Dakota. Hawthorne received his All-American honor in the long jump, Foster received his in the pole vault, and Musgrave earned All-American in the triple jump. These three athletes have excelled all season long and their hard work has paid off with their All-American honors. Congratulations Ray, Tyson, and Scott.

Three tracksters earn All-American honors

By Tom Hughes
ASST. SPORTS EDITOR

History was made by the UMR track team this past weekend at the NCAA Division II National track meet. UMR, for the first time ever, has an indoor track All-American.

UMR accomplished this feat in dramatic fashion. UMR does not have just 1 or 2 All-Americans, we have three.

Ray Hawthorne, long jump; Tyson Foster, pole vault; and Scott Musgrave, triple jump, are UMR's All-Americans. They each obtained this highest honor by placing in the top six in their individual events.

To put this in better perspective, here are some facts. There are approximately 4000 indoor tracksters across the country. Of these only about 3% even qualify for Nationals. Out of those 120 or so athletes about 60 make All-American. That is 1.5%

of the total number of tracksters.

These athletes have achieved their honors despite a couple of obstacles. UMR does not have any indoor track facilities for their athletes to practice. None of the indoor track members are on scholarship. They have mastered their events due to perseverance, hard work, and determination.

The accomplishments of these three athletes should make all UMR students proud. With their work ethics already proven, we can only look forward to the beginning of the outdoor track season. It promises to be the best ever for the UMR track team. Congratulations Ray, Tyson, and Scott!



KEY SPORT FAN IN THE STANDS



Susan Lowe

This week's Fan in the Stands attended the Miner basketball game versus Northeast Mo. If this is you, come claim your prize at the Miner office, 103 Norwood, on Thursday, March 22 at 4:30.

Placement

UNIVERSITY OF MISSOURI-ROLLA
PLACEMENT OFFICE
Buehler Building, 9th & Rolla St.

PERMANENT EMPLOYMENT

WEEKLY DETAIL LIST #9
Week of March 26-30, 1990

BOOKER ASSOCIATES
1139 Olive St.
St. Louis, MO 63101
attn: Mr. John Shu

NUMBER OF SCHEDULES: 1
MAJORS: BS/CE, ME, EE (interest in structural)
POSITION: Design Engineer I
LOCATION: St. Louis
U.S. CITIZENSHIP REQUIRED
MAY, JULY 1990 GRADS

INTERVIEW SIGNUP DATE: Wednesday, March 21, 1990
INTERVIEW DATE: March 28, 1990

CARGILL, INC.
201 Cedar
Ennis, TX 75119
attn: Mr. Joel Stai

NUMBER OF SCHEDULES: 1 (AFTERNOON)
MAJORS: Chemistry (polymer)
POSITION: Polymer Chemist working in
product development. Additional details will be
available when you signup for interview
LOCATION: Ennis, TX
MAY, JULY 1990 GRADS

INTERVIEW SIGNUP DATE: Wednesday, March 21, 1990
INTERVIEW DATE: March 28, 1990

THE WAGNER CO.
#5 Copper
Pacific, MO 63069
attn: Mr. Chris Kincaid

NUMBER OF SCHEDULES: 1
MAJORS: BS/EE, ME
POSITION: EE: Production Engineer - entry
level position with primary responsibilities including
initial electrical design of automated machinery and
providing supervision of machinery production to comple-
tion.
ME: Mechanical Engineer - entry
level position with primary responsibilities including
initial mechanical design of automated machinery and
providing supervision of machine assembly to completion.

(Additional details will be available at time of
interview signups.)

MAY, JULY 1990 GRADS
U.S. CITIZENSHIP REQUIRED
2.8 G.P.A. REQUIRED

DEADLINE FOR TURNING IN RESUMES: Wednesday, March 14, 1990
INTERVIEW DATE: March 29, 1990

Note: Additional degree, BS/ME requested; change in
deadline for turning in resumes (previously Tuesday, March
13)

ADM (ARCHER DANIELS MIDLAND COMPANY)
P.O. Box 1470
Decatur, IL 62525
attn: Ms. Sheila Witts-Mannweiler

NUMBER OF SCHEDULES: 1 (MORNING ONLY)
MAJORS: BS/ChE
POSITION: Production Assistant
LOCATION: Midwest; Southeast

MAY, JULY 1990 GRADS
MUST BE CLEARED TO WORK IN U.S.
TRANSCRIPT IS REQUIRED A TIME OF INTERVIEW
PHYSICAL & DRUG SCREENING WILL BE REQUIRED

INTERVIEW SIGNUP DATE: Wednesday, March 21, 1990
INTERVIEW DATE: March 29, 1990

KEMPER NATIONAL INSURANCE
10950 Grandview Dr., Bldg. 34
Overland Park, KS 66210
attn: Ms. Cecilia Gutierrez

NUMBER OF SCHEDULES: 1 ea day, March 29, 30
MAJORS: BS/MS EngMgt or any Eng. degree
POSITION: Technical Representative I
LOCATION: Overland Park, KS
MAY, JULY 1990 GRADS

INTERVIEW SIGNUP DATE: Wednesday, March 21, 1990
INTERVIEW DATES: March 29, 30, 1990

SOUTHWESTERN POWER
P.O. Box 1619
Tulsa, OK 74101
attn: Mr. Colin Kelley

NUMBER OF SCHEDULES: 1
MAJORS: BS/MS EE (POWER)
POSITION: EE Power Engineer
LOCATION: Tulsa
MAY, JULY 1990 GRADS
U.S. CITIZENSHIP REQUIRED

INTERVIEW SIGNUP DATE: Thursday, March 22, 1990
INTERVIEW DATE: March 30, 1990

RHODES EQUIPMENT
8704 Manchester
St. Louis, MO 63144
attn: Mr. Craig Tapperson

NUMBER OF SCHEDULES: 1
MAJORS: BS/ME or Eng. Mgt. (ME) with thermo
fluid transfer class
POSITION: Technical Sales relating to power
utility and process equipment
LOCATION: St. Louis
MAY, JULY 1990 GRADS
2.3 G.P.A. REQUIRED

DEADLINE FOR TURNING IN RESUMES: Wednesday, March 14, 1990
INTERVIEW DATE: March 30, 1990

WATLOW ELECTRIC
12001 Lackland Rd.
St. Louis, MO 63146
attn: Mr. Elmer Moore

NUMBER OF SCHEDULES: 1
MAJORS: BS/ME, EE or EngMgt (ME)
POSITION: Sales Trainee
(Details available in signup office,
G-3 Buehler Bldg.)
LOCATION: Training in St. Louis, Hannibal, MO;
or Winona, MI - then relocation after training
MAY, JULY 1990
U.S. CITIZENSHIP REQUIRED

INTERVIEW SIGNUP DATE: Thursday, March 22, 1990
INTERVIEW DATE: March 28, 1990

MALLINCKRODT MEDICAL, INC.
P.O. Box 5840
St. Louis, MO 63134
attn: Mr. John Erler

NUMBER OF SCHEDULES: 1
MAJORS: BS/ME
POSITION: Engineer -- Performs engineering work
on projects, studies or other assignments under the
direction and supervision of a more exp. engineer
LOCATION: North St. Louis County
MAY 1990 GRADS
2.6 G.P.A. REQUIRED
U.S. CITIZENSHIP REQUIRED

DEADLINE FOR TURNING IN RESUMES: Wednesday, March 14, 1990
INTERVIEW DATE: March 28, 1990

JOHNSON CONTROLS
2188 Welsh Ind. Ct.
St. Louis, MO 63146
attn: Mr. Dan Wapplehorst

NUMBER OF SCHEDULES: 2 - MORNING ONLY
MAJORS: BS/EE, ME
POSITION: Application Engineer or
Project Engineer
LOCATION: St. Louis
MAY, JULY 1990 GRADS
3.0 G.P.A. REQUIRED

INTERVIEW SIGNUP DATE: Thursday, March 22, 1990
INTERVIEW DATE: March 30, 1990

FRU-CON CONSTRUCTION CO.
15933 Clayton Rd., P.O. Box 100
Ballwin, MO 63022-0100
attn: Mr. James Coleman, Jr.

NUMBER OF SCHEDULES: 2 ea day, April 10, 11
MAJORS: BS/ME; BS/MS CE
POSITION(S): Field, Cost & Scheduling Eng.
LOCATION: St. Louis & construction
projects throughout U.S.

DEC. 89, MAY, JULY 1990 GRADS
2.5 G.P.A.
MUST BE AUTHORIZED TO WORK IN U.S.

DEADLINE FOR TURNING IN RESUMES: Wednesday, March 14, 1990
INTERVIEW DATES: April 10, 11, 1990

The following two companies are not interviewing at UMR, but have expressed an interest in receiving resumes for job openings:

WESTINGHOUSE SAVANNAH RIVER COMPANY
Professional Staffing, Building 719-4A
Aiken, SC 29808

Westinghouse Savannah River Company has many opportunities for Chemical Engineers: Applications, Systems, Field Service Engineering, and Design. (Additional details are available in Job Notebook, 2nd floor, Placement Office.) Send resume to Westinghouse Savannah River Company, attn: Mr. James E. Hedges, Manager

DEBERT CORPORATION
20000 Governors Drive
Olympia Fields, IL 60461-1074
attn: Mr. Rodney Simms

POSITION: PROCESS DESIGN ENGINEER
DESCRIPTION: Working under the Department Manager, designs and/or applies equipment to meet specific customer requirements, develops and manages project schedules, performs inspections, etc. Additional details are available in Room 201, Placement Office

REQUIREMENTS: BS/ChE, ME or related technical field.

SEND RESUME TO: Mr. Rodney L. Simms, Executive VP
(address listed above)

MISSOURI HIGHWAY
P.O. Box 270
Jefferson City, MO 65102
attn: Mr. Ron Scott

WILL ACCEPT RESUMES FROM COMPUTER SCIENCE MAJORS GRADUATING IN MAY. POSITION IS LOCATED IN JEFFERSON CITY. PLEASE SEND RESUME TO MR. SCOTT, ABOVE ADDRESS.

The following two companies will interview on April 10:

FOOT LOCKER 7381
DAMES & MOORE
INFORMATION WILL BE AVAILABLE IN WEEKLY DETAIL LIST #10

Co-op Employment

March, 1990

CO-OP EMPLOYMENT OPPORTUNITIES

Sign-up location: 101 Buehler Bldg.
Co-op Office
9th & Rolla Sts.

Sign-up hours: 7:45 am - 11:00 am
1:00 pm - 3:00 pm

Interview date: Wed., March 28, 1990

UNION CARBIDE CHEMICALS & PLASTICS CO.
Texas City, TX

Interviewing: Ch.E., E.E., M.E.

Requirements: 3.0 GPA or above, American Citizenship required or permanent resident. Academic level of applicants: at least 30 credit hours completed at the end of the present semester.

start work fall 90

Sign-up date: Monday, March 12, 1990

1/2 schedule for Ch.E. = 7 interview openings
1/2 schedule for E.E., & M.E. = 6 interview openings

PAUL MUELLER COMPANY
Springfield, Missouri

Interviewing: Eng.Mgmt., M.E., Met.E.

Requirements: 2.0 GPA or above

Turn-in-Resumes: Tues., March 13, 1990

RESUMES ONLY. IF YOU WOULD LIKE TO BE CONSIDERED FOR CO-OP EMPLOYMENT WITH THE ABOVE COMPANY, PLEASE BRING A COPY OF YOUR CO-OP RESUME TO THE CO-OP OFFICE ON THE ABOVE DATE.

GENERAL ELECTRIC
Cincinnati, Ohio

Interviewing: Eng.Mgmt., M.E., C.Sc.

Requirements: 3.0 GPA or above. Freshmen can apply.

start work summer 90

Turn-in Resumes: Tues., March 13, 1990

RESUMES ONLY. IF YOU WOULD LIKE TO BE CONSIDERED FOR CO-OP EMPLOYMENT WITH THE ABOVE COMPANY, PLEASE BRING A COPY OF YOUR CO-OP RESUME FORM TO THE CO-OP OFFICE ON THE ABOVE DATE.

NOTE: The ones that indicate RESUMES ONLY. This means the company will not be on campus interviewing, but they would like resumes to review and should contact you if they are interested in interviewing you.

Please let the Co-op Office know immediately of any acceptance of an offer.

Please check with the Co-op Office periodically to see if additional companies have scheduled interviews. These will be posted on the bulletin board outside the Co-op Office and printed in the Miner Newspaper.

St. Pat's Buffet
ALL YOU CAN EAT
6⁹⁵

Sat. & Sun. from 11 a.m.

FEATURING
Salad Patch, Ribs, Burnt Ends, Chicken, Ham, Sausage, Shrimp, Clam Strips, Corn on the cob, BBQ Beans, Fries, Hot Rolls and Green Beans with New Potatoes
(We're Famous for Ribs)

Johnny's Smoke Stak

Hwy. 72 & Rolla St.

MENU OR BUFFET ALL DAY

Summer Employment

UNIVERSITY OF MISSOURI-ROLLA
Placement Office
Buehler Building, 9th & Rolla St.

SUMMER EMPLOYMENT

WEEKLY DETAIL LIST #9
WEEK OF MARCH 26-30, 1990

ALLEN BRADLEY
3787 Ryder Trail St.
Earth City, MO 63045
attn: Mr. Roger Brisso

NUMBER OF SCHEDULES: 1
MAJORS: BS/any engineering degree for
technical sales

LOCATION: Earth City
MUST BE JUNIOR LEVEL AND ABOVE

INTERVIEW SIGNUP DATE: Thursday, March 22, 1990
INTERVIEW DATE: March 28, 1990

GENERAL MILLS
2917 Guinott
Kansas City, MO 64120
attn: Mr. David Nye

NUMBER OF SCHEDULES: 1
MAJORS: BS/EngMgt(PACKAGING OPTION)
POSITION: Summer Intern
LOCATION: Kansas City
MUST BE JUNIOR LEVEL OR ABOVE

INTERVIEW SIGNUP DATE: Thursday, March 22, 1990
INTERVIEW DATE: March 28, 1990

The following company is interested in receiving
resumes only:

DEDETT CORPORATION
20000 Governors Drive
Olympia Fields, IL 60461
attn: Mr. Rodney L. Simms

JUNIOR INTERN POSITIONS AVAILABLE FOR BS/ChE, ME, or related
technical field. Position will be: Process Design Eng.
Knowledge of computer design, data base, and spreadsheet
programs a definite plus. Send resume to Mr. Simms, above
address.

FORTUNE INN

福園
Authentic Chinese Food
Dine In or Carry Out

Hours: Mon.-Sat. 11 am.-10 pm. Closed Sunday

LUNCH SPECIAL

Monday-Saturday 11 am. - 2 pm.

(All items include fried rice or crisp noodles and soup.)

- | | |
|-----------------------------------|--------------------------------------|
| 1. Cashew Chicken.....\$2.95 | *6. General Tso's Chicken.....\$3.25 |
| 2. Seet & Sour Chicken.....\$3.10 | 7. Shrimp chow Mein.....\$3.25 |
| 3. Seet & Sour Pork.....\$3.10 | 8. Mushroom Chow Mein.....\$2.95 |
| 4. Pepper Steak.....\$3.25 | 9. Chicken Chow Mein.....\$2.95 |
| *5. Hunan Pork.....\$3.35 | * Hot & Spicy |

Call in Advance for Faster Service
1901 N. Bishop Street (next to Denny's)
Hwy. 63 North Rolla MO 341-3430

Sunday Night Student Special



**SIRLOIN
STOCKADE**

Chopped Sirloin
Chicken Fried Steak
each only

\$4.99

Sundays
4 p.m.-Closing

Includes: Potato, toast,
salad & hot food bar, and drink.

1401 Martin Spring Drive
364-7168

Open: Sun-Thurs 11 am-10 pm
Fri-Sat 11 am-11 pm

U M R

SPRING CAREER INFORMATION DAY

9 A.M. - 4 P.M.
March 27, 1990
Miner Recreation Building

A variety of companies and organizations will
be on hand to promote summer and co-op
jobs and discuss employment opportunities
in general.

▲ ▲ ▲

- ▲ Explore and develop employment options
- ▲ Talk to employers even if you already have a job
- ▲ Meet company representatives
- ▲ Learn where your skills and knowledge fit into the current employment scene

Bring your resume and your questions!
DOOR PRIZES WILL BE GIVEN HOURLY



CRATE



Ibanez



WOOLF MUSIC SOUND CENTER

Complete Sound
Reinforcement Systems
DESIGN • INSTALLATION • RENTALS

Alvarez

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KEYBOARDS
GUITARS



AMPS
DRUMS

Your Authorized Dealer

314 - 341-3020

Hwy. 63 South (Southside Shoppers World) Rolla
Easy Layaway/90 Days Same As Cash

Quality Customer Service Experience It!



Phelps County Bank

A Locally Owned Community Bank

Main Office, 8th & Pine, Rolla 364-5202

Drive-In Facility-Hwy. 72 & Salem Ave., Rolla 364-5202

University Center East-UMR 364-5202

100 S. Jefferson, St. James 265-3222

Member F.D.I.C.



A CUT ABOVE

209 West 11th St. HAIR SALON

364-6866

Happy St. Patrick's Day!



Buehlman's Beverage Mart

Beer * Wine * Liquor * Snacks
Conoco Gas

364-6762 1808 N. Bishop

YOU HAVE FRIENDS WHO CARE
AT...

BIRTHRIGHT

PHONE: 364-0066

215 WEST 8th STREET
P.O. BOX 832
ROLLA, MISSOURI 65401

FOR HELP
DURING UNPLANNED PREGNANCY
FREE PREGNANCY TESTING
NEW EARLY DETECTION METHOD

AIM HIGH

SEE YOURSELF IN AIR FORCE ROTC FOR THE PICTURE OF SUCCESS.

See yourself becoming a
leader, graduating from college
as an Air Force officer with fully
developed qualities of character and
managerial ability.

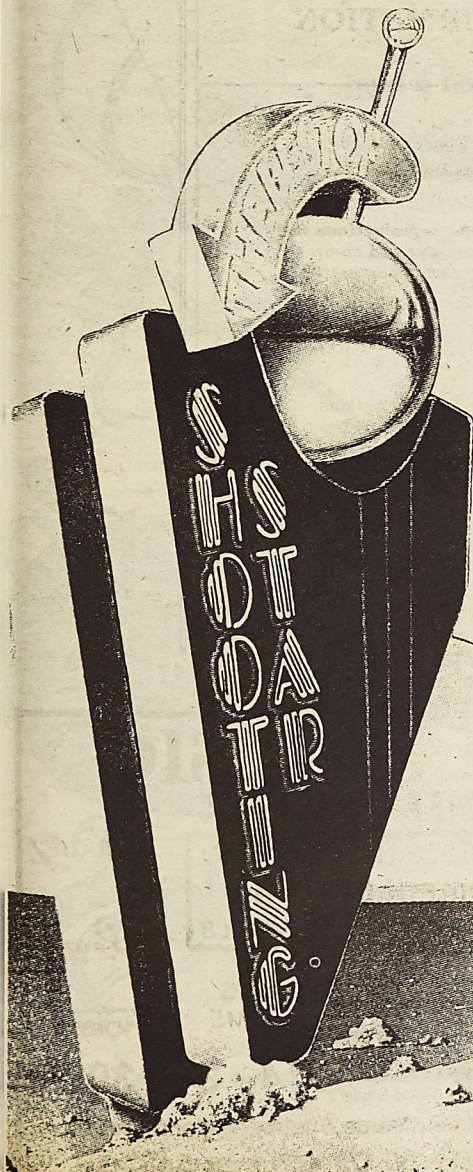
Notice, too, the opportunities: like eligibility for
scholarship programs that can pay tuition, textbooks,
fees...even \$100 in tax-free income each academic month.

Visualize a crisp uniform that reflects your pride
in yourself and your ability to accept challenge. Get the
picture? Now make a call:

MISSOURI AFROTC
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Leadership Excellence Starts Here



UMR THE STUDENT UNION BOARD
SUB AND THE ST. PAT'S BOARD
PRESENTS
SHOOTING STAR

WITH
THE GARY RICHRATH BAND
FORMER LEAD GUITARIST
OF RED SPEEDWAGON

**SATURDAY,
MARCH 17, 1990**

IN THE GALE BULLMAN
MULTI-PURPOSE BUILDING AT 7PM

ADVANCE TICKETS AVAILABLE

IN FRONT OF THE BOOKSTORE

UNIVERSITY CENTER WEST.

ON FEBRUARY 26: MARCH 16

\$3.00* STUDENTS WITH VALID UMR ID (ONE PER ID)

\$5.00* ALL OTHER TICKETS

TICKETS ON SALE AT THE DOOR

MARCH 17, 1990 AT 5 PM FOR \$5.00*

FOR MORE INFORMATION CALL 341-4220

TICKETS ALSO AVAILABLE AT:

WOOLF MUSIC FORUM VIDEO

MUSIC STATION PUMP HANDLE KEY SPORT

*TICKET PRICE INCLUDES TAXES

Two - O - Nine

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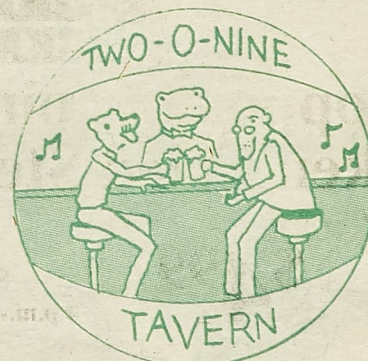
The Original Alumni Bar!

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Belly up with the Board
March 14 11:00 AM
BBQ! Day of Parade
March 17

209 W. 8th St.
341-8220

Hours: Monday - Saturday
8:00am - 1:30 am

Wednesday

ST. PAT ARRIVES

Noon

Eighth Street Railroad Tracks

FOLLIES

12:30 pm

Eighth Street Railroad Tracks

CASINO NIGHT

7pm

Armory

sponsored by Theta Tau Omega

Thursday

Gonzo

11:30 pm

Lions Club Park

Catch a bus!

Friday

Games

Noon

Lions Club Park

Catch a bus!

CORONATION CEREMONIES

9pm

Multipurpose Building

Saturday

PAINTING OF STRIPE

7:30 am

Pine Street

ST. PAT ARRIVES

10 am

Pine Street

ST. PAT'S PARADE

11am

Pine Street

KNIGHTING CEREMONY

2:30pm

Jackling Field

SHOOTING STAR CONCERT

7 pm

Multipurpose Building

J.G. JONES
03-12